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Northern California's Computer Magazine

July 21, 1997 • #167

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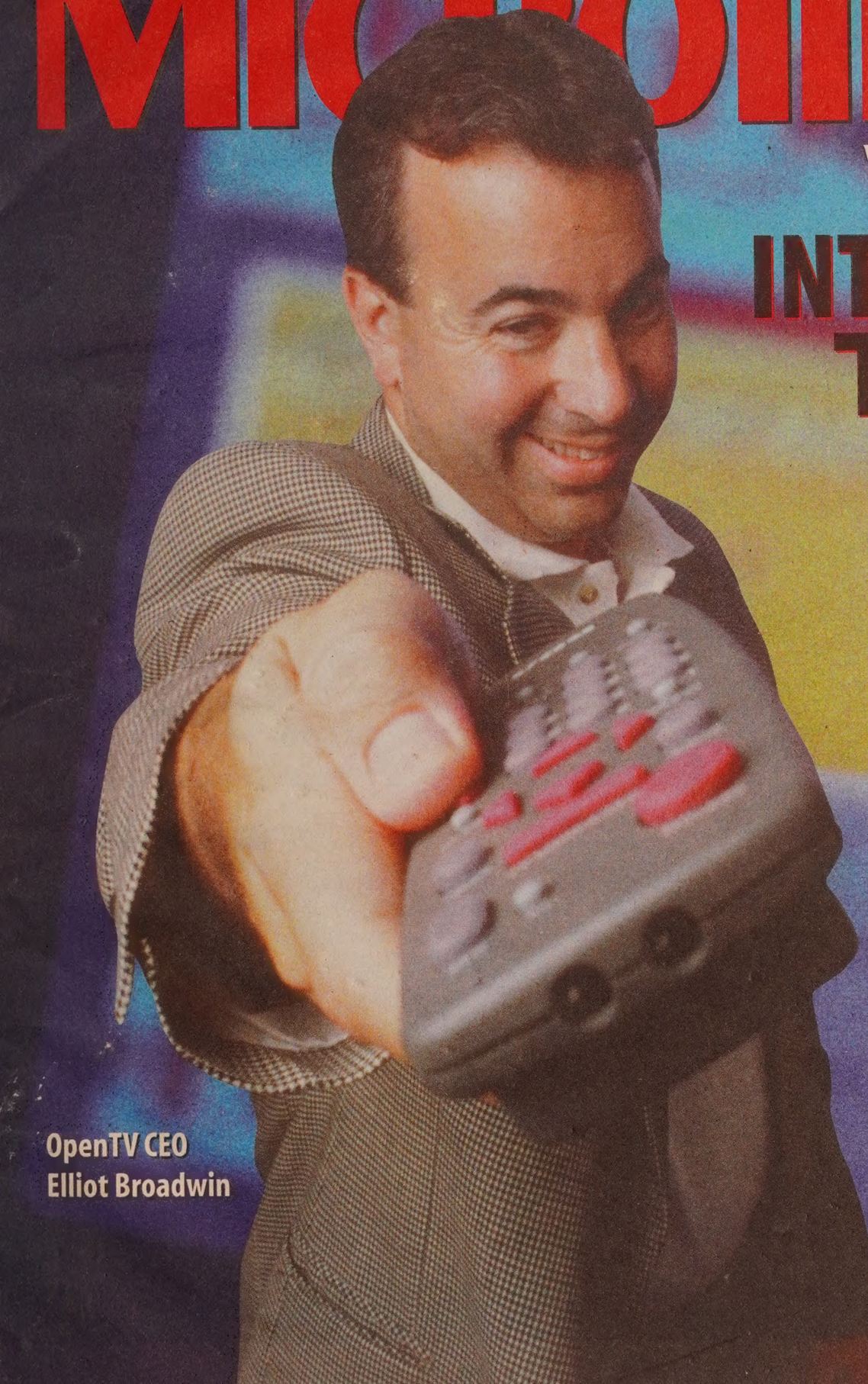

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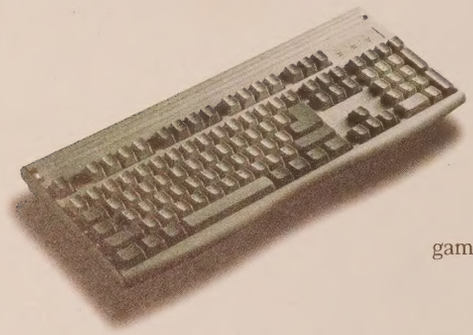
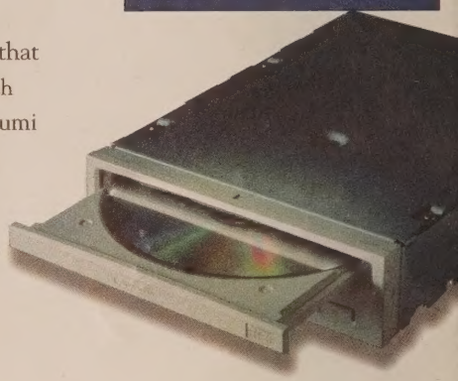


Mitsumi 16x and Higher CD-ROM Drives



When building systems for the long haul, you have to use components that are built to last. That's why we build our TOUCH systems (Touch P133MD pictured above) with Intel Pentium® Processors and Mitsumi peripherals. The Mitsumi ZW104 keyboard features a new ergonomic design, Windows 95 compatibility and 3 special keys dedicated to navigating in Windows 95. And Mitsumi 16X and higher speed CD-ROM drives offer greater performance making games run better, video files play smoother and software installations finish

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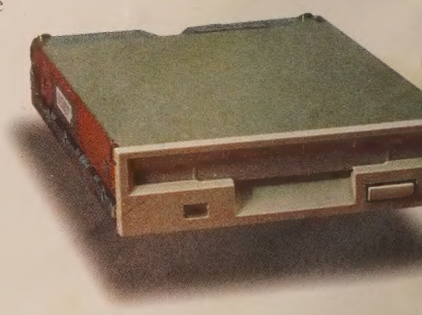

video files play smoother and software installations finish faster. Mitsumi's volume production gives you consistent quality and superior performance at unmatched prices. This makes Supercom TOUCH systems some of the most reliable systems around. So if you're looking for systems that are built to last with components to match, call Supercom today at 1-800-888-1888 for reliable high performance computers.

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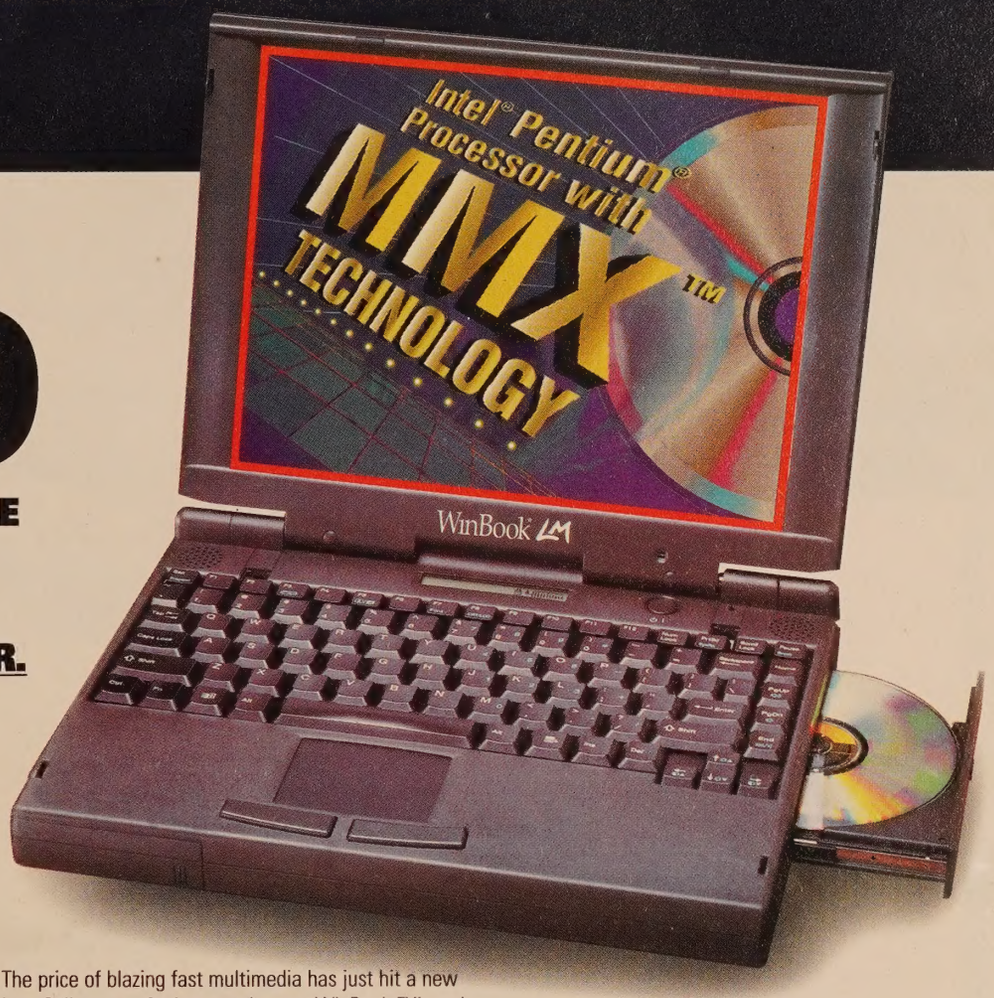

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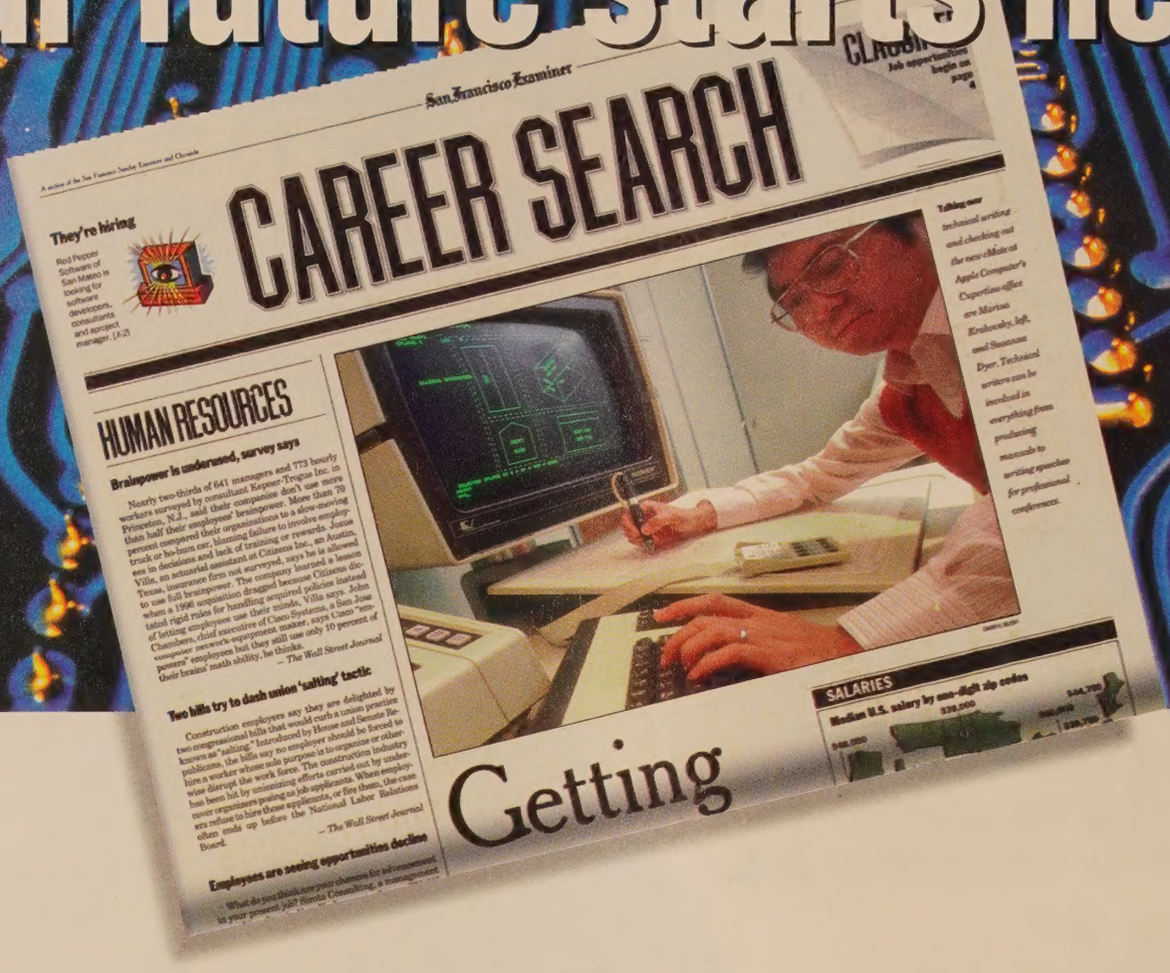

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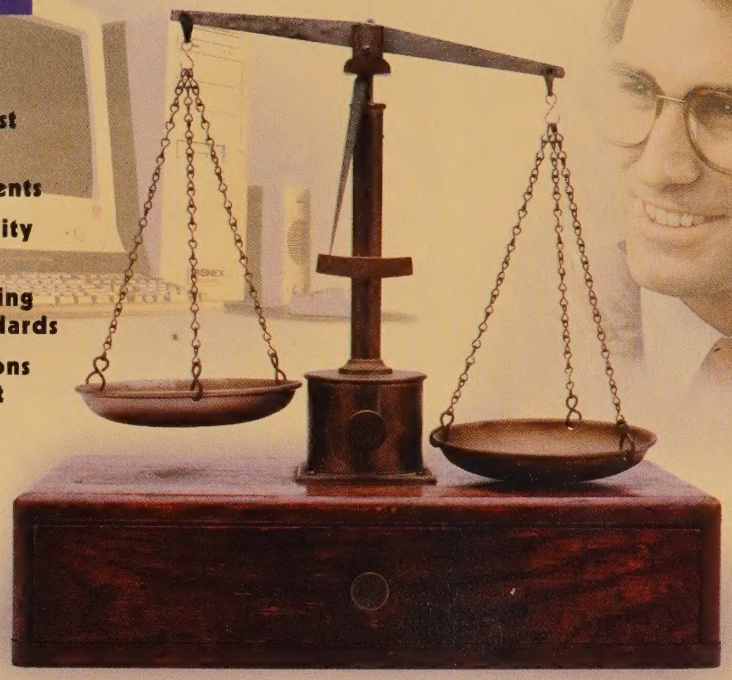

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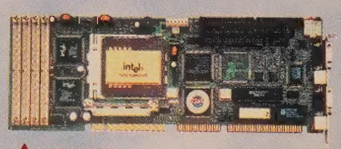

▲ **SRC-610**
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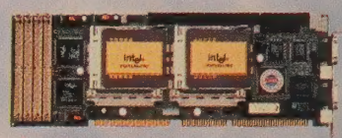

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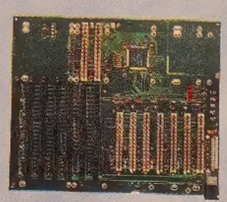

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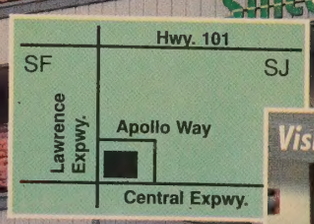

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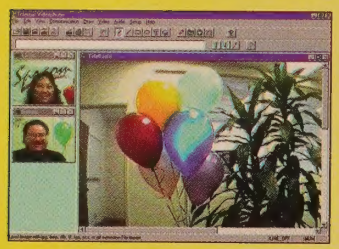

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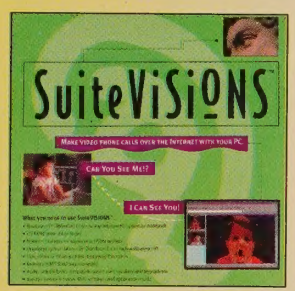

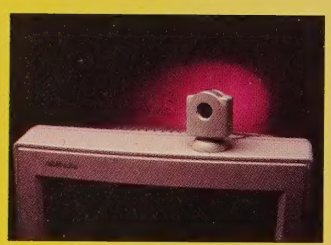

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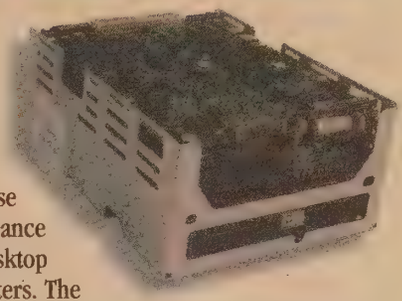

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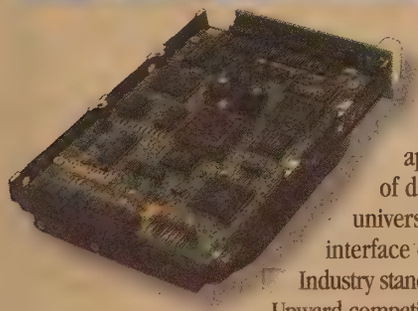

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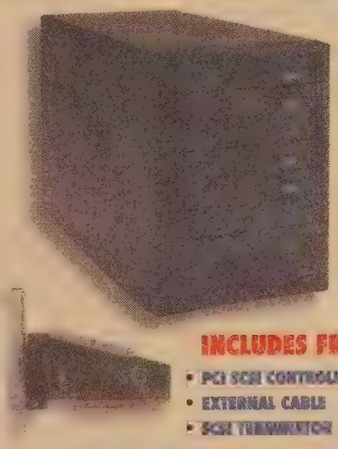

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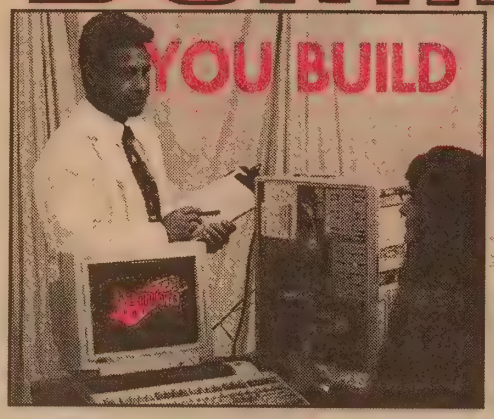

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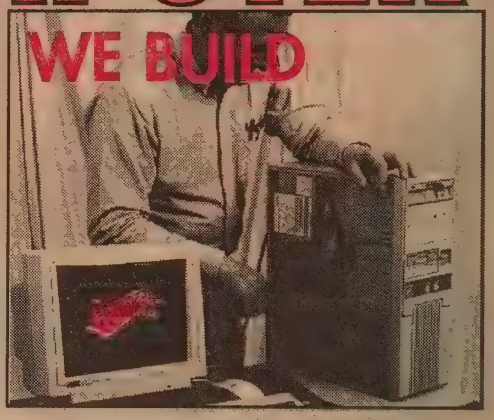

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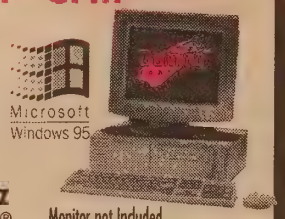

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- Mid Tower Case (ATX Style)
- MS PS/2 Mouse and Domino Mouse Pad
- 104 Key Windows '95, PS/2 Keyboard
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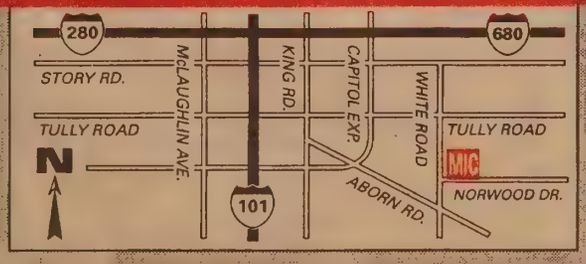

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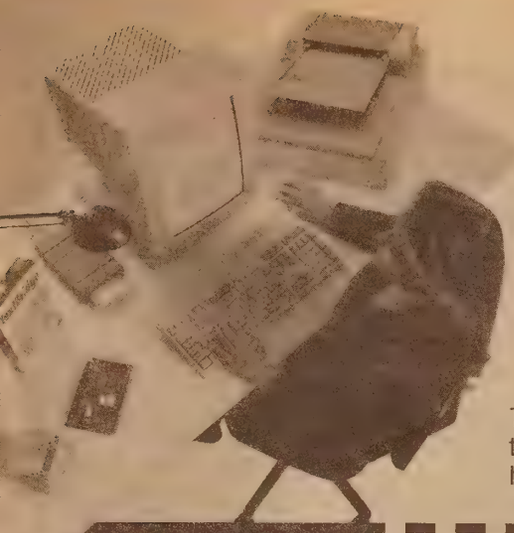

Test-drive a great color scanner

The Envisions Scanner Outlet is the only store in the Bay Area that specializes in scanners, so we have the answers to your tough scanning and graphics questions. Stop by our Santa Clara store to test drive a scanner and find out how you can add color images to your documents quickly and easily with a color scanner from Umax.

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Umax Gemini, Trans Adapter & Photoshop 4.0!

The Umax Gemini D16 scanner has long been a favorite of graphics pros because it offered 800dpi maximum optical resolution, 30-bit color, and a transparency adapter (for slides and film), all for under $1,500. We bought the last batch of Geminis the Umax factory ever made, and now we're closing them out at $999. To sweeten the deal, we're even throwing in a free copy of Photoshop 4.0! Hurry, when these Geminis are gone, they're gone forever!

Our simplest color scanner, just $178!

The easy-to-use Umax Astra 300P

For those who put ease of installation at the top of the list, Umax has the perfect solution. The new Astra 300P is a great color flatbed that plugs into your PC's parallel port, so you don't need to install an interface card or learn anything about SCSI in order to set it up.

In fact, the Astra 300P can be installed in under three minutes. It's so simple, it even takes up less desk space — it's just 16" x 12" x 3". The Astra 300P also weighs in at just 8 lbs., so it's light enough for anyone to take on the road.

Like its more expensive sisters, though, the Astra 300P uses the same high-quality optics that have made Umax the 1997 Editors' Choice at both *PC Magazine* and *Macworld*. The Astra 300P also comes as a complete scanning system, including Adobe PhotoDeluxe for scanning, editing, and printing photos; Wordlinx OCR for converting text; and drivers for Windows 3.1 & Windows 95.

Umax Astra 300P Complete Scanning System (Reg. $249) $199*
Umax Astra 300P System with Adobe Photoshop 4.0 ..... $499*
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Umax sets a new standard for scanners with the Astra 600S, the only scanner in its price range with 30-bit color and a legal-sized scanning bed. The Astra 600S uses the same high-quality optics that have made Umax the 1997 Editors' Choice at both *PC Magazine* and *Macworld*.

With the Astra 600S, you'll be able to add graphics to everything you produce on your PC. You can scan color photographs at 300dpi and add them to ads, brochures, and catalogs, or use them to spice up your web site. The 600S is also perfect for scanning in text from letters, invoices, and other paperwork. With the included OCR software, you'll be able to save hours of typing time.

The Astra 600S comes as a complete scanning system, with Adobe PhotoDeluxe for scanning, editing, and printing photos; Presto! PageManager for converting text; Windows 3.1, Windows 95, Windows NT & Mac drivers; and a SCSI-2 adapter card and cable.

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The S12 gets bigger and better

When *PC Magazine* set out to find the best general-purpose scanner, they considered brands from a dozen manufacturers but ended up choosing our best seller: the Umax SuperVista S12.

In their words: "Business and personal users need an easy-to-use device that will handle both document scanning and color scanning at an affordable price. For those users we recommend our Editors' Choice, the UMAX Vista-S12 ($500 street). The combination of value and performance delivered by the 24-bit, 600-dpi Vista was unparalleled in this roundup."

Now the S12 has been upgraded to the Astra 1200S, with the same great color quality *plus* a legal-size bed and a true 30-bit scanning process. These features make it an even better value at the same price! The Astra 1200S comes with the same great software bundles as the other Astra scanners, and includes Windows 3.1, Windows 95, Windows NT & Mac drivers; and a SCSI-2 adapter card and cable.

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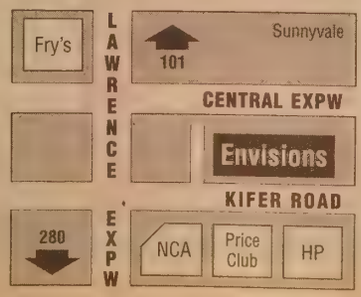

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Immediate sign-up	No	No	YES
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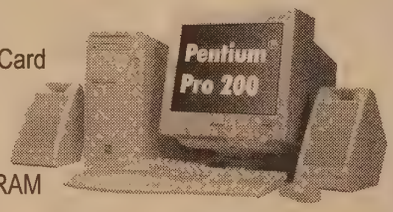

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He organized and chaired the landmark First Conference on Computers, Freedom & Privacy (1991), led the successful 1993 citizen effort making state legislation and statutes available via the Internet, served on the 1995 Secretary of State's Electronic Filings Advisory Panel advocating online campaign finance disclosures and the state Senate's Task Force on Electronic Access to Public Records until resigning in protest in June, 1997.

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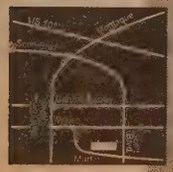

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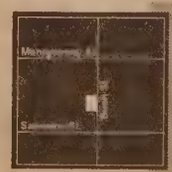

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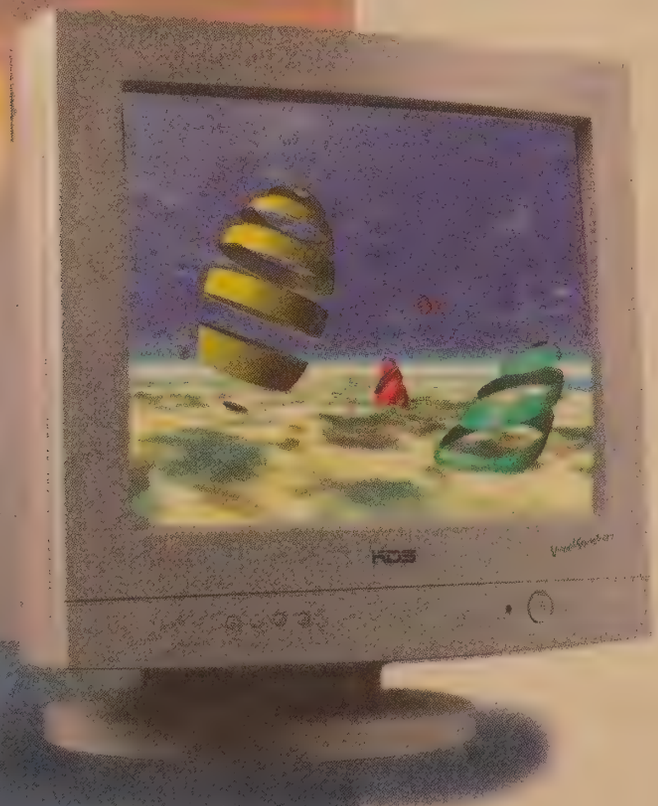

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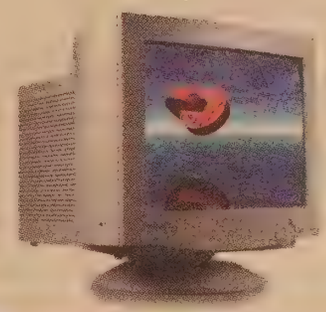

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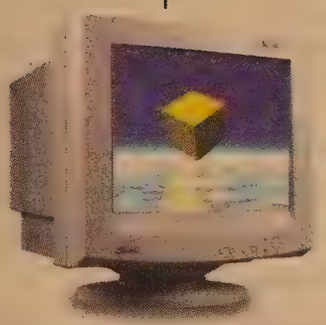

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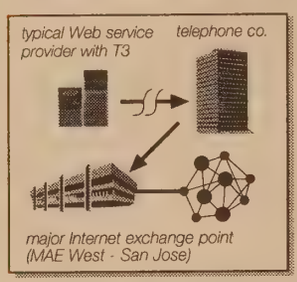

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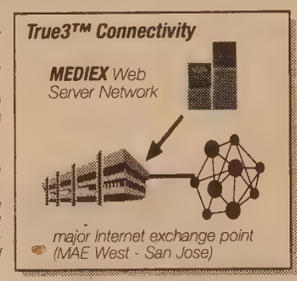

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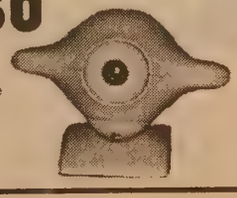

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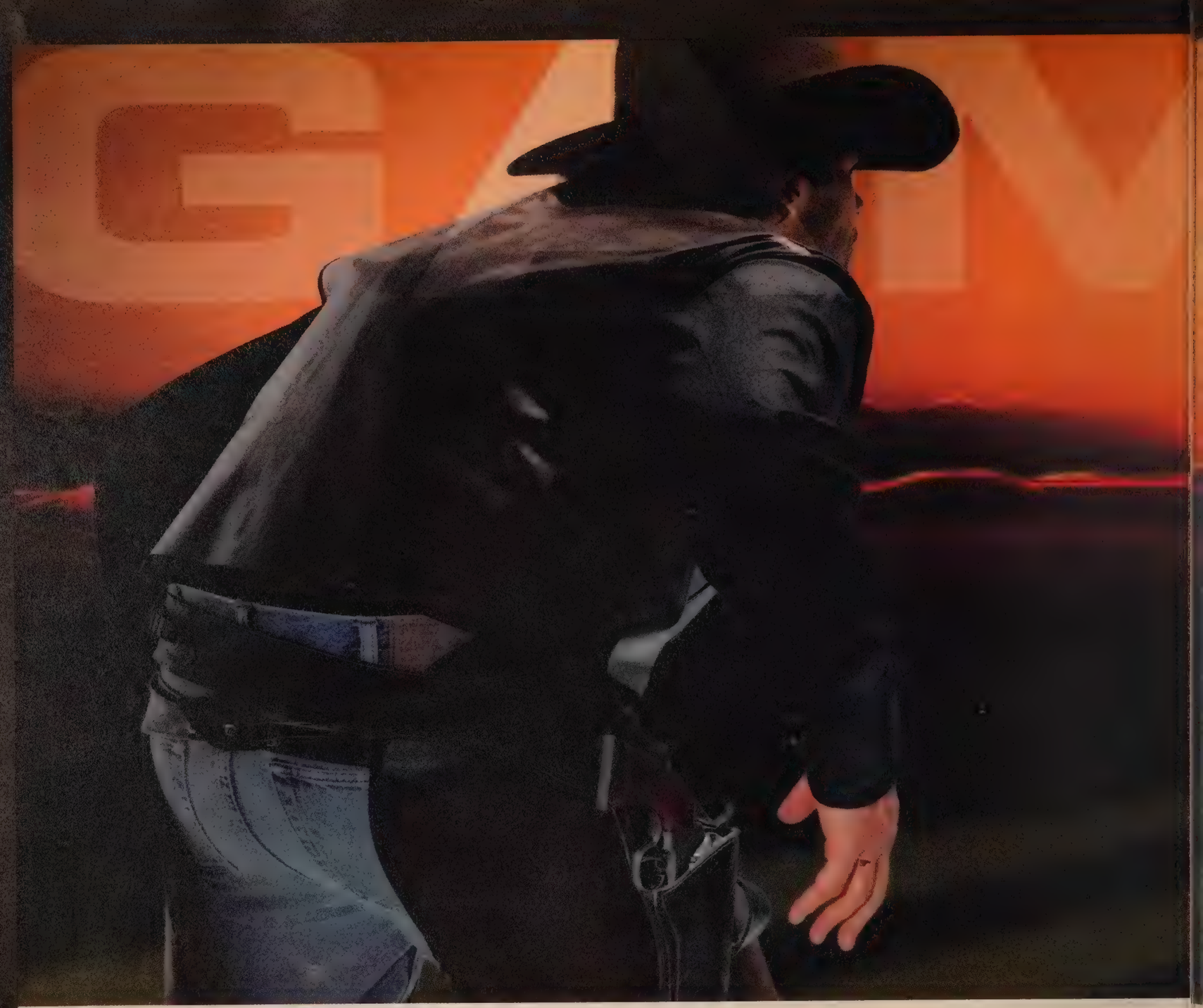

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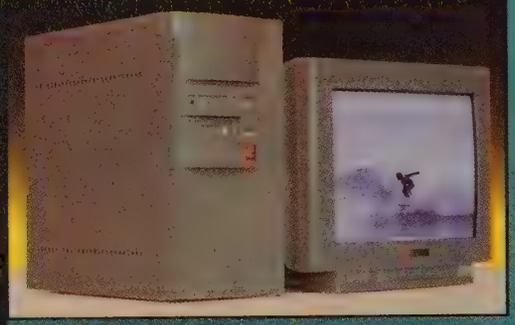

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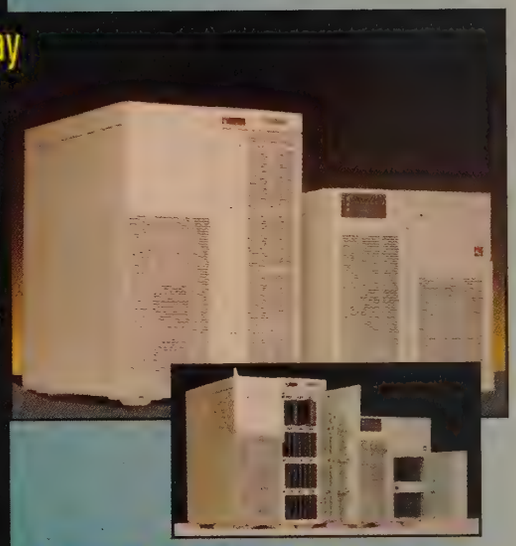

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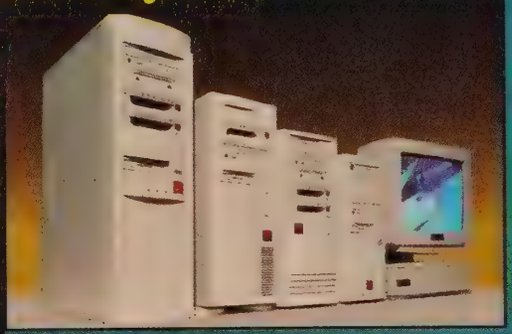

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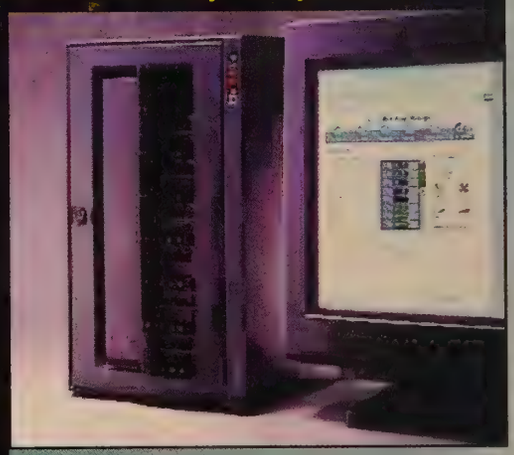

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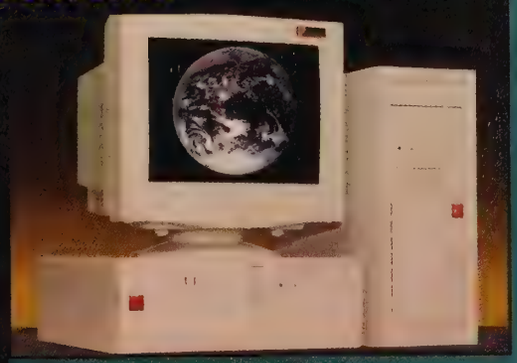

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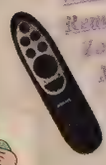

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Industry Insights

Internet Suites Competition Heats Up

Five years ago, before "Internet" was a ubiquitous term, the top software vendors were fighting each other to own the market for office productivity suites. In those quaint old days, suites were sets of software that office users would want to use on a daily basis: word processing, spreadsheets, presentations, and so on.

Microsoft was battling the entrenched leader, WordPerfect (remember them?), and we all were forced to watch as our applications got bigger and bigger, often with features that only advanced users could understand. The suites often cost over $500, and new releases were greeted with groans because we knew that there would be so much new to learn.

What a difference five years makes! Now, the suites battle is between Microsoft and Netscape, the suites are for Internet software, and the price point is about one-tenth what it was for the office productivity suites; in fact, Microsoft is still giving away its Internet suite. Sure, the office productivity market still exists, but Microsoft owns at least 80% of it, and the price is still nearly $500.

In 1992, the suites offered lots of features that almost no one used. Seriously, how many people use more than a handful of the features in their spreadsheet? Today's Internet suites are similar, especially after the recent release of Netscape's Communicator 4, its latest foray into the market, and the release later this year of Microsoft's Internet Explorer 4. Most people use the basics, but can barely comprehend the meaning of half of the preferences available.

Still, the two companies are fighting hard for mindshare, wanting to own as much of the Internet suites market as Microsoft owns of the office productivity market.

Netscape's Lead Tweaks Microsoft

Communicator 4 is a truly impressive set of software, and Internet Explorer is quickly shaping up to be the same. However, impressive doesn't mean useful, particularly to the legions of novice Internet users who are just now starting to get Internet access.

Both packages are starting to sprout features that make conceptual sense but are hard to figure out how to start using. The argument "Oh, that's okay, people will learn over time" is about as true for these new features as it is for, say, indexing and revision marks in word processors.

Regardless of the bloat, Netscape is clearly ahead of Microsoft on the timeline. The Communicator 4 package started beta test in February and the final version was released in mid-June; Microsoft is predicting that the earliest it will get out the official beta version of Internet Explorer 4 is late July, and the final version will probably not come out until at least two or three months after that.

Such a large lead is exactly what Netscape needs in order to maintain the perception that it is the feature leader in the market. Internet Explorer 4 will probably have some features that aren't in Communicator 4, but most of the new features will look like "me too" when compared to Netscape. Both packages have become so large that the feature lists go on for dozens of pages, so even advanced users find making feature comparisons difficult.

Microsoft continues to trump Netscape on one major feature: price. Netscape costs, and Microsoft doesn't. Many people such as students can legally get Communicator for free, but the basic price is around $50 depending on the kind of package you buy it in. Internet Explorer is still free, and Microsoft hasn't even started hinting about beginning to charge for it. If Microsoft charged what Netscape does, it would have a much smaller piece of the market, so they feel compelled to keep it free, at least for a while longer.

In 1992, the suites **offered lots of features that almost no one used.** Seriously, how many people use more than a handful of the features in their spreadsheet? Today's Internet suites are similar.

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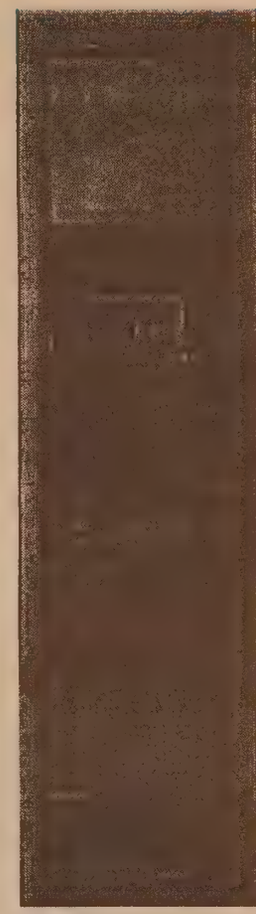

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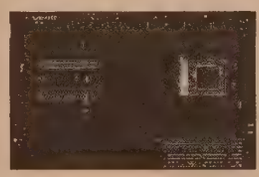

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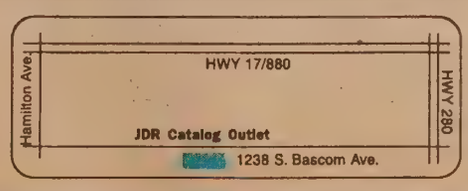

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Industry Insights *continued...*

More Than Just Web

Because they are suites, the improvements in Communicator 4 (and coming in Internet Explorer 4) come in many parts of the programs. People often think of the packages as based on "the Web," but in fact more than half of the new features come in other parts of suites. Of course, the Web browsers are beefed up, but some features have been moved out to other components to make the browser a bit easier to handle.

For instance, the mail clients in both packages are much more robust than in earlier versions. Netscape has improved its handling of HTML pages in its "Messenger" mail client, and Microsoft has promised to add this feature which is sorely lacking in the current version. The new packages make it truly easy to copy a Web page into an email message and send it to someone you think would be interested. Instead of saying "go here," you can say "here it is."

The mail clients will also both support S/MIME, one of the two leading systems for adding security to email. With S/MIME, you can either encrypt a message so no one other than the intended recipient can read it, or you can sign a message to prove that you and only you could have sent it. As security becomes more and more of an issue on the Web, these kinds of features will become more in demand from typical users.

Netscape also added IMAP support to its mail client, which will make it easier to read your mail while you're not connected to the Internet. In a similar vein, Netscape added some features to the Web browser portion of Communicator that allow you to download many pages from a Web site and view them at a later time. And, yes, Microsoft will have these features as well.

Too-Dynamic HTML

One area where the two suites threatened to diverge was in their advanced HTML handling. Both suites support the basic HTML v3.2, which has been out for about a year, but each also wanted to improve on HTML in ways that were incompatible with each other. Although the industry pundits who proclaimed that this would "fracture the Internet" were blowing the problem out of proportion, having two quasi-standards for how to create good-looking Web pages would have caused untold grief for Web authors.

The way that the two companies wanted to move forward both got labeled "dynamic HTML." In short, it was a way of adding style sheets and special extensions to HTML to make Web pages more interesting, such as by making them animated, or having them change when you moved the cursor over a particular part. Microsoft and Netscape wanted to do this in entirely different fashions, which would mean that a page that looked great in Communicator would look lousy in Internet Explorer.

The mess came about because the World Wide Web Consortium (better known as the W3C) has taken forever to finish the definitive specification for how to do dynamic HTML. This created a gap in which both companies

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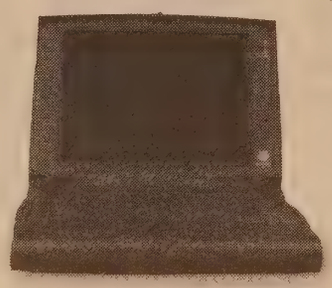

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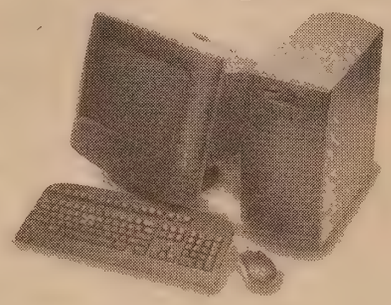

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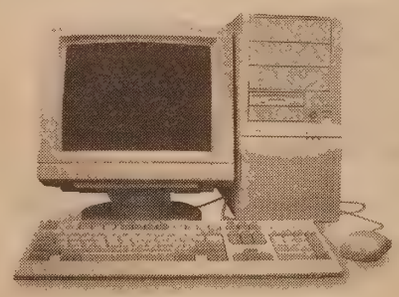

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thought they could force the issue to go their way, Netscape by being first and Microsoft by being bigger. Fortunately, due to pressure from their customers and the computer trade press, Netscape, Microsoft, and the W3C recently came to their senses and have agreed to work harder on getting the new specification out, and have also agreed not to push for any proprietary dynamic HTML until the spec is finished.

Internet Software Goes Well Beyond The Suites

Although the Internet suites market looks pretty much like a two-company race, there is still plenty of room for other packages, particularly ones that focus on one piece of the puzzle such as email or conferencing. Neither of the suites is going to get every feature of every module right, and the bloat factor has made both suites fairly intimidating to people who only need or want to use the Internet a little bit.

For instance, even though Communicator's email component, Messenger, has lots of new features, the arrangement of the features is clearly aimed at people who know what they're doing with email; Microsoft's various email clients look similar. Both seem to forget that less than a quarter of the computer users in this country (much less the world) have started using the Internet; the next three-quarters will clearly be less advanced than those already here.

Thus, there are still plenty of niches in the Internet software market, just as there are in the office productivity market. Given Netscape's lead and how hard Microsoft is competing (and the fact that Internet Explorer is still free), it is unlikely that any company could become "the next Netscape." However, it is likely that companies that focus on specific markets can sell tens or hundreds of thousands of copies of their software to people who already use Communicator or Internet Explorer but want something more tailored to their style or needs.

Three likely markets for specialized Internet tools come to mind (and I'm sure there are many others): K-12 classrooms, people who only want email, and administrative assistants who process all the incoming communications for their bosses. Neither of the big suites are well positioned for these markets, and it's likely that a few smart, small companies can fill in.

This Year's Choices

However, for the people who do want an all-in-one Internet suite, there are still choices to be made. Do you want Netscape now, or Microsoft this fall or winter? If you're a PC user, should you wait for Windows 97/98 before upgrading, since that will certainly bring its own hassles? Do you even care about the new features in either package, or might you just stay with what you've become familiar with?

Assuming that Microsoft can meet its deadlines (which is always a shaky assumption), the months of waiting may or may not be worth it. Netscape had delivered a fairly comprehensive, if not overbearing, package now, and it will be challenging to Microsoft to keep up.

Of course, Netscape isn't standing still, so by the time Microsoft ships Internet Explorer 4, Netscape might already be previewing parts of Communicator 5. By keeping ahead in quantity and quality of features, Netscape could well keep users happy enough not to go with Microsoft's free alternative. ■

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Stock Chart on page 207

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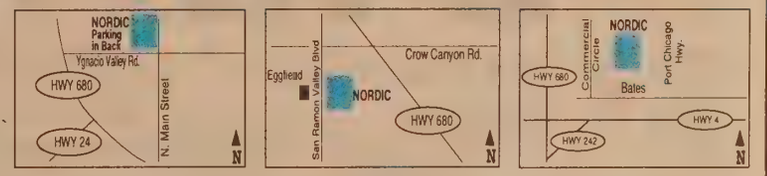

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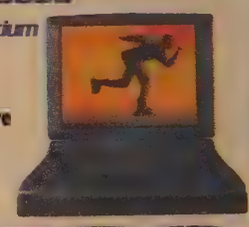

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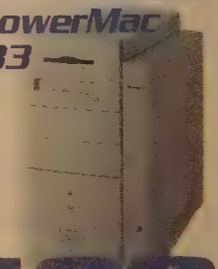

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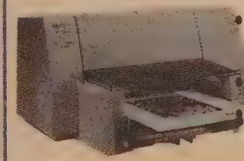

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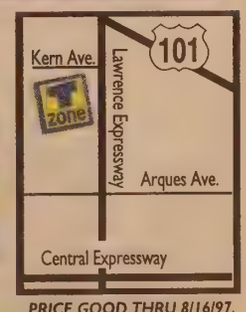

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REALIZABLE FANTASIES • BY JIM WARREN

Trashing The California Public Records Act

Officials Take Advantage Of Computer Access Loophole

Citizens' public access to our public records *should* become easier and more robust, as ever-more public records are computerized for internal agency efficiencies and cost-savings. Public access *should* become more convenient and less expensive for citizens seeking to be *informed* participants in the process of their own governance—who have already paid, through their taxes, for that collecting and computerizing of public information.

Without this crucial public access, we are merely simpering serfs, to be manipulated in ignorance, by those in power. And when such information access is limited only to those who can buy it, then our government is similarly up for sale.

The legislature knows it. In 1993, thanks to AB1624 by California Assembly Member Debra Bowen (D-Marina del Rey) and a grassroots campaign organized via the Internet, the legislature recognized that we *are* a high-tech state, and made us the first state in the nation to provide *modern* public access—via the Internet—to their long-computerized public legislative records, without charging state fees.

(One of the best examples of legislative access in the nation is the California State Senate Web site at *http://www.sen.ca.gov/* , created largely through the diligent efforts of their sys-admin, Dennis Miller, *drinet@sna.com* , who later left and became an independent consultant.)

The judiciary knows it. The California State Judicial Council—composed of judges from the state's trial courts and appellate courts—had years of commissions and committees haggling over computerized public access to the courts' already-computerized public documents. Overcoming ardent opposition by many myopic judges—who wanted to peddle such modern access for its revenue stream—the Council finally "done the right thing."

It adopted recommendations that—unless perverted in the legislative special-interest swamp—will provide maximum modern public access to all computerized public court records at minimum cost; a tiny but important step towards rebalancing the massive inequality between rich and poor in the civil and criminal courts.

> Many officials are using the computer-data copy-control option to either **prohibit online access,** or—more often—peddle it for far more than the infinitesimal "direct costs of [online] duplication."

Furthermore, the Judicial Council has even—*gasp!*—asked for online public comments on their proposal. See "Access to Electronic Records" at *http://www.courtinfo.ca.gov/invitationstocomment/* .

Our Know-Nothing Cities & Counties

However, in wild contrast to these laudable decisions by the legislative and judicial branches of California's government, Governor Wilson's executive branch, and city and county politicians and bureaucrats, have tenaciously *opposed* equitable, modern access to their already-computerized, tax-prepaid public records.

- Posterior-protecting politicians hate the potential exposure.
- Buck-hustling bureaucrats covet the loot they could make by peddling their public information monopoly.

The leaders in this effort to choke equitable, modern public access are the League of California Cities and the California State Association of Counties—the big-bucks lobbying operations of our city and county politicians, funded by your local taxes.

California Public Records Act Eroded

These anti-access and buck-hustling officials are trying to fundamentally change the California Public Records Act (CPRA), which has stood for decades as a stalwart defense of the People's *equal* right-to-know—to monitor how government is conducting the People's business. It mandates robust, free [tax-prepaid] access to, and minimum-cost copies of, our tax-funded public information.

But it has a loophole regarding computerized records—and un-civil, anti-service officials are steadfastly exploiting it to pressure for fundamental change in the CPRA.

To understand how these self-serving officials are attempting to trash equal public access, it's essential to know something of the state's Public Records Act. (Keep this around. The CPRA is an *amazingly* potent tool for "prying" into what the government is doing.)

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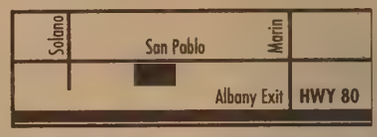

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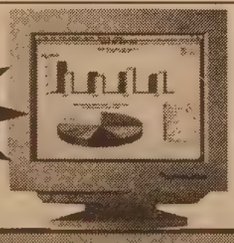

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Realizable Fantasies *continued...*

• **The fundamental principle:** The CPRA's first sentence states, "the Legislature, mindful of the right of individuals to privacy, finds and declares that **access to information concerning the conduct of the people's business is a fundamental and necessary right of every person in this state.**" [Cal. Govt. Code §6250, boldface added]

The CPRA applies to local governments and state executive-branch agencies, excluding numerous named exemptions. It addresses two fundamental types of traditional public records access—access for "inspection," and access to "copies."

• **Independent of form:** The CPRA explicitly includes all non-exempted information regardless of its physical form—"handwriting, typewriting, printing, photostating (*sic*), photographing, and every other means of recording upon any form of communication or representation, including letters, words, pictures, sounds, or symbols, or combination thereof, and all papers, maps, magnetic or paper tapes, photographic films and prints, magnetic or punched cards, discs, drums, and other documents." [§6252(e)]

I.e., public records stored in any computerized form are specifically included.

• ***Inspection* of public records:** The CPRA mandates that "Public records are open to inspection at all times during the office hours of the state or local agency and every person has a right to inspect any public record, except as hereafter provided." [§6253(a)]

In other words, every local and state agency must either provide timely access to all of their records upon request or must cite a specific statutory exception that allows them to prohibit that access.

(Unfortunately, there's no penalty for the *numerous* instances where agencies violate this law. To enforce the CPRA in such cases, you must go to court—at your expense. And to add insult, your taxes pay for their opposition!)

• ***Copies* of public records:** Not only are public records available for public *inspection* in agency offices, but the agency is also required to provide *copies* upon request: "Any person may receive a copy of any identifiable public record or copy thereof. Upon request, an exact copy shall be provided unless impracticable to do so." [§6256, first part]

• **Cost of copying:** Recognizing that it costs something to make *paper* copies of public records—perhaps several pennies per page—and that taxpayers shouldn't have to bear the costs of such copies, the CPRA allows—but *limits* —the fees that an agency can charge, saying, "each state or local agency, upon any request for a copy of records, which reasonably describes an identifiable record, or information produced therefrom, shall make the records promptly available to any person, upon payment of **fees covering direct costs of duplication**, or a statutory fee, if applicable. Any reasonably segregable portion of a record shall be provided to any person requesting such record after deletion of the portions which are exempt by law." [§6257]

The crucial phrase is, "fees covering direct costs of duplication."

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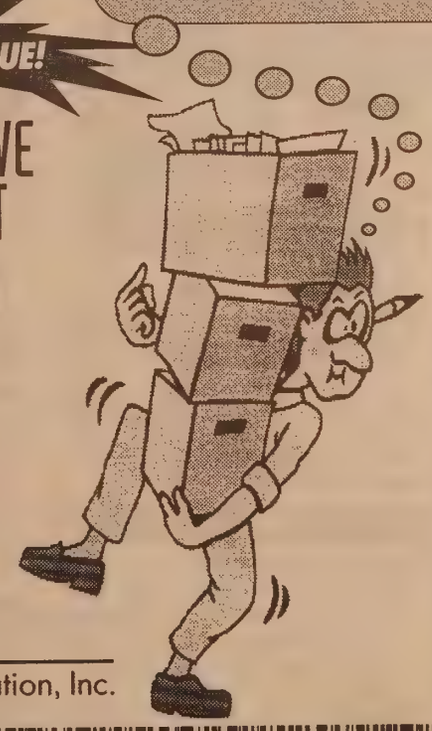

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Realizable Fantasies *continued...*

Now you might *think* that the CPRA is rather clear: The public has:

- a need to know,
- a right of access, and
- a right to copies at no more than the direct cost of duplication.

One might *think* that copies of computerized *public* records could most reasonably and usefully be made in—*surprise!* —computerized form.

And one might *think* that the CPRA limits the cost of such copies to no more than the "direct costs of duplication"—the costs of copying the data onto a diskette, or the 1/10,000ths of a penny that it might cost to deliver a public record online.

The Bureaucrat's Loophole

Unfortunately, the CPRA was written long ago in mainframe times, and the computer-naive legislators included what has become a monumental loophole, exploited by numerous bureaucrats and politicians, intent on blocking modern/electronic access—or at least selling *useful, modern* access only to those willing to pay far more than the unprofitable "direct cost of duplication." Those naive legislators of long ago added a final sentence to §6256: "Computer data shall be provided in a form determined by the agency."

In other words, agencies can opt to provide the mandated copies only in paper form at their front counter during office hours. If you want modern/digital/online *access or copies —if they will allow them at all—you gotta pay and pay and pay.*

Suppressing Online Access

However, *online* public access—which can complement and supplement wasteful, difficult, tedious, front-counter access to quaint paper printouts misfiled in far-distant agency offices—inherently delivers a *copy* of the public record; you can't get online access without incidentally receiving a copy.

When an explicit exemption for schools, libraries and non-profit organizations was proposed, Attorney General Dan Lungren's representative bluntly opposed any such clarification.

And many officials are using the computer-data copy-control option to either prohibit online access, or —more often—peddle it for far

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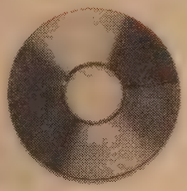

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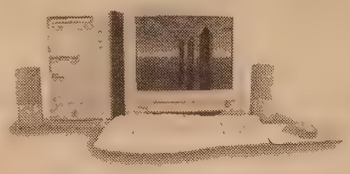

• Equipment is just representative of items sold.

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- Intel Venus/Natoma ATX MB
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- Adaptec 2940AU Ultra SCSI Controller
- Seagate Baracuda 2.0GB SCSI Hard Disk
- HP 1534 2.0GB SCSI Int Tape Drive
- PCI SVGA Card w/1MB DRAM
- 12X SCSI CD ROM Drive
- Victoria 3-Button Serial Mouse & Pad
- 104-Key Keyboard
- MS Windows NT Server 4.0 (5 Licenses)
- Adaptec Cogent 10/100 AutoSensing TX PCI Ethernet Card

(Monitor & Speakers not included)

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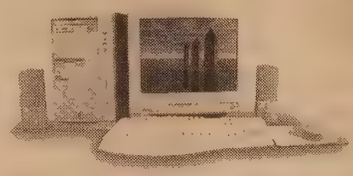

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with MMX™ Technology

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- 1.44 Floppy Disk Drive
- Western Digital 4.0GB EIDE HDD
- Matrox Mystique w/4MB SGRAM
- US Robotics Sportster X2 56K Voice/Fax/Modem
- Panasonic 24X EIDE CD ROM
- Yamaha YST - M15 Stereo Speakers
- Victoria 3-Button Serial Mouse & Pad
- 104-Key Enhanced Keyboard
- MS Windows 95
- NETCOM's NET Complete CD Internet Software Bundle

(Monitor not included)

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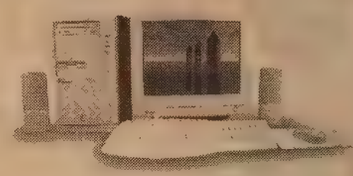

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Victoria™ PLATINUM

with MMX™ Technology

- 200 Mhz Intel Pentium® Processer with MMX™ Technology
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- Mid Tower ATX Case w/230w PS
- 1.44 Floppy Disk Drive
- Western Digital 3.1GB EIDE HDD
- Matrox Mystique w/4MB SGRAM
- US Robotics Sportster X2 56K Voice/Fax/Modem
- Mitsumi 16X EIDE CD ROM
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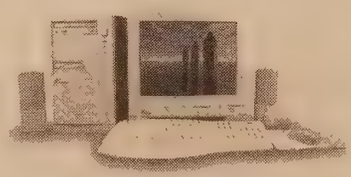
- Victoria 3-Button Serial Mouse & Pad
- 104-Key Enhanced Keyboard
- MS Windows 95
- NETCOM's NET Complete CD Internet Software Bundle

(Monitor not included)

200MHz..... **$1569**



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- Victoria 3-Button Serial Mouse & Pad
- 104-Key Keyboard
- MS Windows 95
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(Monitor & Speakers not included)

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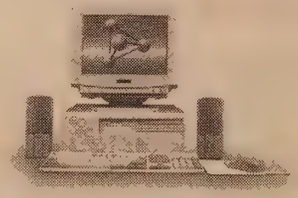

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Victoria™ GREEN

- Intel Marl ATX Pentium® MB
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- Intel Pentium® Processor & CPU Fan
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- 104-Key Enhanced Keyboard
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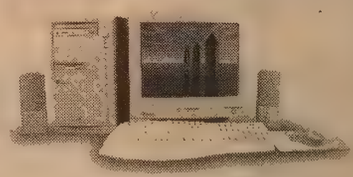
(Monitor not included)

150MHz..... **$919**



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Victoria™ RED

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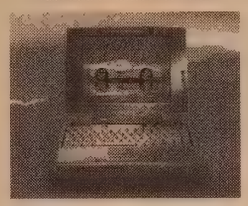

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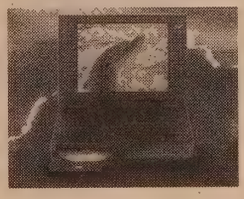

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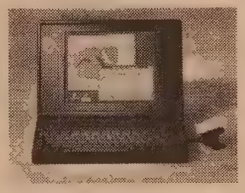

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HD COMPUTER WWW Shopping Mall: http://www.hdcomputer.com

Realizable Fantasies continued from page 32

more than the infinitesimal "direct costs of [online] duplication."

Currently, they are diligently seeking to get the legislature to adopt the following major change in the principle of direct cost of duplication:

"For requests in which the information is to be used for any commercial purpose, the records shall be made available upon payment of the actual cost of providing the record, which shall include the costs of search, retrieval, review, segregation, and duplication, plus an *x* percent surcharge, or a statutory fee."

To those who are eager to further gouge those nasty ol', job-producing, tax-paying businesses that haven't yet fled the state, this may sound reasonable. But keep in mind:

- It will apply to every commercial ISP and small-fee-based BBS that might otherwise volunteer to provide online access to public records.
- It will apply to every commercial CD-ROM producer and information publisher.
- It will apply to every researcher or freelance writer who hopes to get paid for publishing the results of their research into government records.

And, when an explicit exemption for schools, libraries and non-profit organizations was proposed, Attorney General Dan Lungren's representative bluntly opposed any such clarification.

Although it can't hurt to send letters to your city council members and county supervisors stating your opinions of their efforts to increase fees for modern access to your public records (and ask for a substantive response), it appears most likely that the only way the public is going to obtain and protect "equitable" modern public-records access is going to be by a ballot initiative. Let's start one, now! ■

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The leaders in this effort to choke equitable, modern public access are the League of California Cities and the California State Association of Counties—

the big-bucks lobbying operations

of our city and county politicians, funded by your local taxes.

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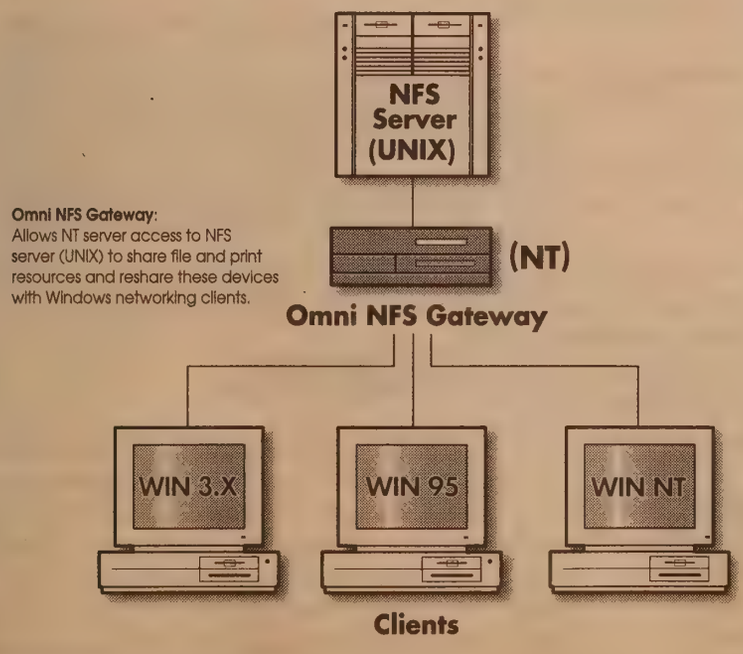
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Letters

And Now, A Few Words From Metricom...

When we ran Shawn Jipp's "Magic Meets Ricochet" piece last month, we thought its gonzo torture-test qualities more or less spoke for themselves and diverged rather quickly from sober technical review. However, we got a phone call from the fine folks at Metricom, purveyor of Ricochet, expressing concern that the article conveyed inaccurate information in places and gave the wrong impression in others. Naturally, we cordially invited them to clarify the situation, which they, in the person of representative Susan Kohl, do herewith:

* * * * *

• We do not provide our service to seven hotels across the country.

"A few cities have been uncooperative, and those are the cities where Metricom has no service."

• We have more than fifty-eight cities and towns in the Bay Area covered, including San Francisco. What cities is he referring to?

The salesman had difficulty getting a connection in a well-buried room and lost it several times. The data transfer rate seemed really slow.

• We do not advertise that Ricochet works well in caves. And our salespeople are trained to set expectations, especially when doing a live demonstration. It's not in their best interest for failure. (They'd never make any money :-)

After using Ricochet for a while, I noticed that the battery life was only about an hour when the manual claimed 90 minutes.

• We actually claim 4–6 hours with our original modem. There was obviously a significant hardware problem since one-hour battery life is not a complaint we hear.

Metricom is addressing this problem (battery life) by currently developing a smaller modem that will have longer battery life, yet weigh even less. I was told that it would, perhaps, be available before the end of 1997.

• We released the new modem on May 5th.

I tried using the Ricochet while riding on the BART train. No luck. I tried using it to drive to SF at 65 mph.

• We don't advertise connectivity at speeds over 6 mph.

I tried using it in San Francisco. Very sporadic coverage.

• We signed an agreement with San Francisco early this year and have been installing radios all over the city. (I would be interested in finding out where he tried it and when, just to pass the info along to our deployment team.)

My friend said it would be cheaper to install another phone line for $80 rather than pay $39.95/month.

• He did not mention the monthly charges for a second phone line or the costs associated with an Internet Service Provider. Or whether it would cover unlimited Internet. The combined charges are about equivalent to Ricochet.

Just don't expect it to be as fast as your 28.8 or 33.6Kbps modem.

• We don't advertise speeds of 33.6. We advertise speeds between 14.4 and 28.8. And, if performance drops below that, we want to know because we'll simply add another radio in the alleged problem coverage area.

Don't expect the battery to last over an hour (although it could).

Metricom's new and improved Ricochet SE modem.

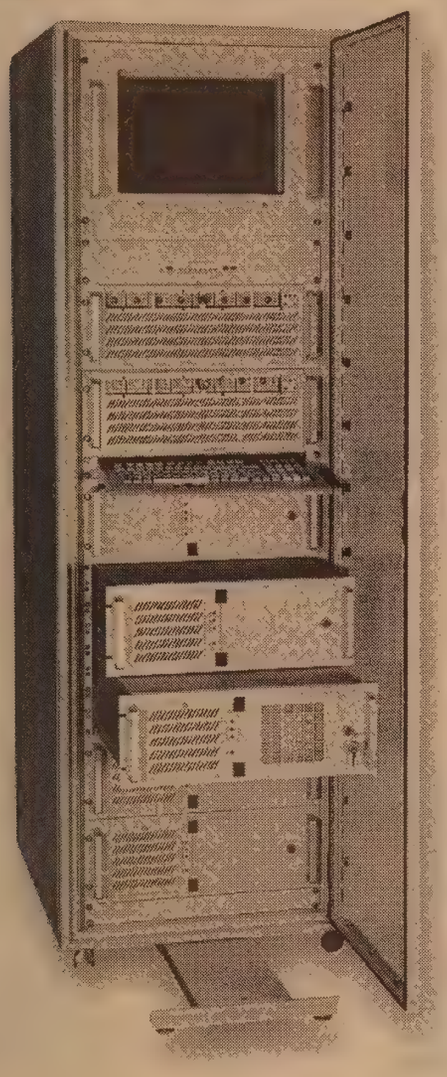
"We don't advertise speeds of 33.6. We advertise speeds between 14.4 and 28.8. And, if performance drops below that, we want to know because we'll simply add another radio in the alleged problem coverage area."

• We expect our subscribers to expect battery life of 4–6 hours on the original modem and 8–12 hours on the new SE. That's what we advertise and that's what we deliver.

Last, the photo you ran was of the new Ricochet SE modem with longer battery life (the one that wasn't supposed to be out until, perhaps, the end of 1997!).

For further info, see http://www.metricom.com. ■

INDUSTRIAL
COMPUTER • SYSTEMS



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RACKMOUNT RAID ENCLOSURE
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RACKMOUNT KEYBOARD
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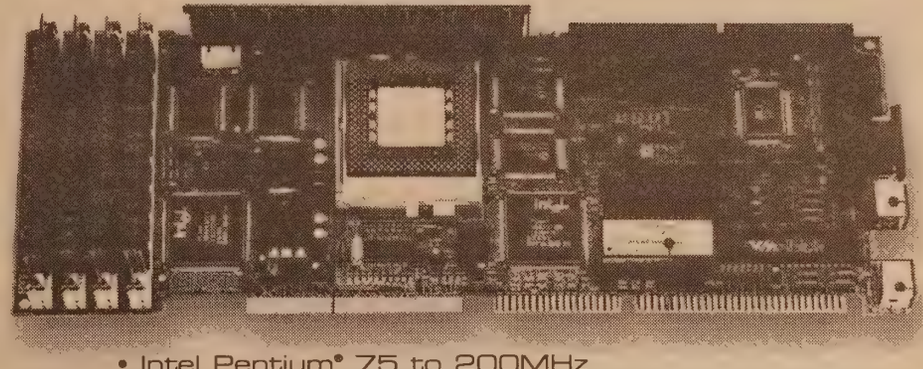

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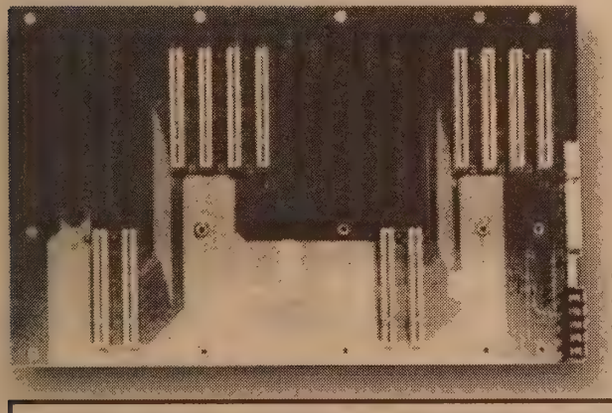

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LAPTOPS • BY ED KAHN

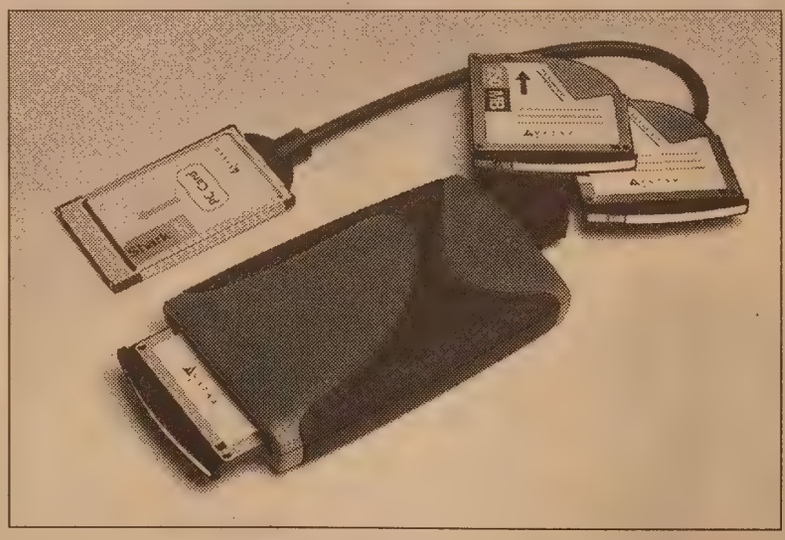
Avatar's Portable Disk Drive

The Shark 250 Mobile Hard Drive Offers An Affordable And Truly Portable Storage System

As portable computers age, one of the first things to become outdated is the hard disk drive. Not too many years ago, before Windows 95, portables routinely came with drives that were less than 100MB. Gradually, as prices fell and demand increased, the drives included with portables grew larger. Nevertheless, there are still many older portables that work fine, but simply need a larger hard drive. Unfortunately, if you go back to the company that manufactured the computer, you will probably receive a pricey quote for a larger hard drive. Even though many manufacturers used removable hard drives, the price of a larger (proprietary) replacement hard drive is often more than the computer is worth today.

Over the last several years, the number of portable hard drives available has been growing. Many of these products are terrific and provide a quick fix for the too-small-hard-drive dilemma. Within this environment, Avatar has released a new entry in the portable drive arena—a system that I like it better than any of the other options. The Shark 250 Mobile Hard Drive is a removable hard drive that fits into a compact holder and connects to the computer through either a parallel port adapter or a PC Card slot. The removable media is similar, but smaller, to a 3.5" floppy disk.

The Shark 250 is packaged with either the parallel or PC Card interface. If you later decide you need the other interface as well, both are available for $79.95 each. I tested both interfaces with no problems. One of the older portables I tested, for example, was still running Windows for Workgroups 3.11 and I had to use the parallel interface. The Shark 250 connects using a parallel pass-through cable, which also lets you connect your printer. Power for the drive is drawn through the keyboard port. A small cable connects from the keyboard port to the pass-through parallel connector. The drive installs easily and Avatar's software sets the computer up to recognize the new drive.



The Shark 250 Mobile Hard Drive is a removable hard drive that fits into a compact holder and connects to the computer through either a parallel port adapter or a PC Card slot.

Once you have the software installed, you can easily move the Shark 250 between computers. The removable HARDiskette holds 250MB. Extra HARDiskettes are available ($39.00 for one or three for $99). While this is not the least-expensive storage medium available, it is the least-expensive whole system. I recently used a magneto-optical backup system that stored 650MB and cost $50 for the disk, but you cannot buy this kind of system for anywhere near the price of the Shark 250. Furthermore, the Shark 250 will run without an external power supply and offers real portability. Avatar ships one 250MB HARDiskette with the drive. This disk contains software including a backup utility and games as well as the Acrobat Reader. Unfortunately, these software titles will not work unless you are using Windows 95.

While both the parallel or PC Card interface works well, the PC Card is considerably faster.

continued on page 44

IBI ANNOUNCES EXPANSION SALE!

IBI Computers has moved into a much larger facility. To kick off our move, we've lower the prices on all our notebooks and systems! Get a Pentium® Multimedia MMX system for as low as $1299 or get the new Chembook 2600 for only $2539! We have lots of deals, so come on down.

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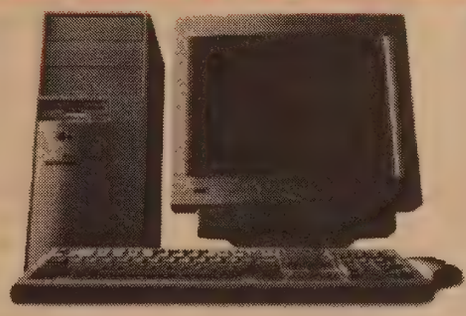

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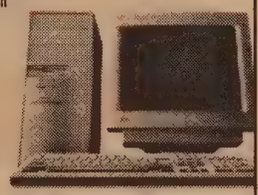

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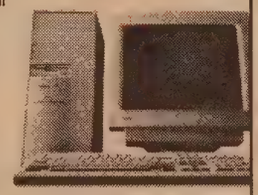

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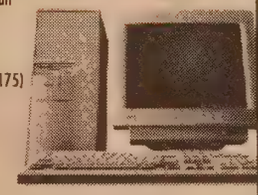
- Creative Labs Sound Blaster 16
- 180-Watt Stereo Speakers
- Logitech Mouseman, 104 Keyboard
- Super Mini Tower ATX Case



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- Microsoft Windows NT 4.0 Workstation

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233 MHz MMX Pentium II Processor
BESQ PowerMachine PII233S

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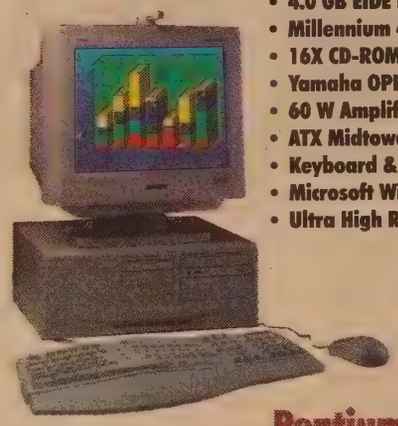

- Intel Portland PD440FX Motherboard
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- Ultra High Resolution 17" NI Monitor add $490

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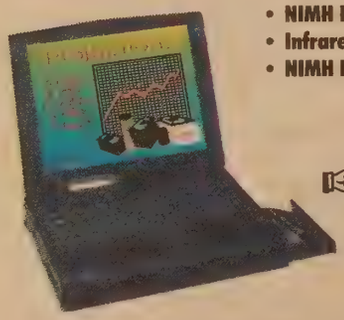
Business lease: 74/Mo

Pentium II 266 $2249

BESQ Mobilebook 6280CD



- 16MB RAM (Maximum 40MB) (upgrade to 32MB/add $95)
- 1.4GB Hard Drive (2.1GB/add $105)
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Pentium	$1,729	$2,199
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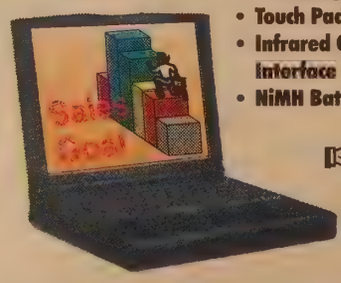
Pentium	$1,899	$2,359

MMX166 Add $85 MMX200 Add $150

BESQ Mobilebook 7200CD



- 16MB RAM (72MB Maximum)
- 2.1GB Hard Drive (3.1GB/add $200)
- 512K L2 Pipeline Cache
- Built-in 5.25" 16 X CD-ROM
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- 16-bit Audio w/Stereo Sound System
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- 1 Slot Support Zoom-Video Port
- Touch Pad
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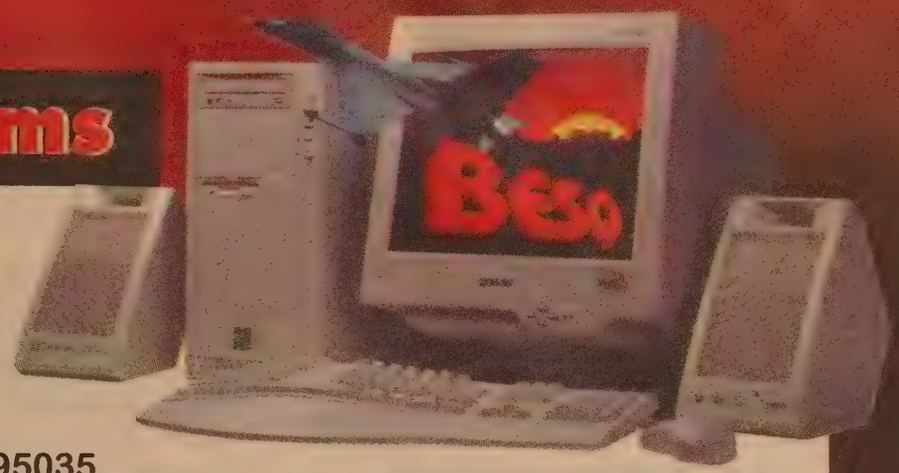

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- Microsoft Windows NT 4.0 Workstation
- ATX Midtower Case with 235 W Power Supply
- 104 Keyboard/Logitech Mouse

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200 MHz K6MMX Processor
BESQ PowerMachine K200SM

Best Buy

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- 512 KB Pipelined Burst Cache
- 1.44 Floppy Drive/2.0GB Hard Drive
- Millennium 4M WRAM Video
- New 12X CD-ROM Drive
- Sound Blaster 16 PnP Sound Card
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K6-166	$1149	$41/Mo

200 MHz MMX Pentium Processor
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Pro180	$1199	42/Mo

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P5-133	$799	29/Mo
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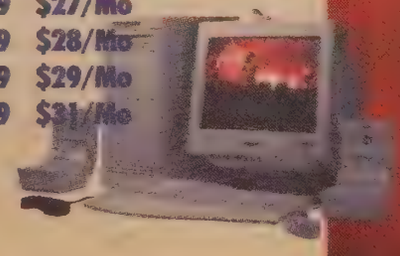
P5-150	$759	$28/Mo
P5-166	$779	$29/Mo
P5-200	$879	$31/Mo



Network setup, installation & on site service

Laptops *continued from page 40*

Even through the parallel port, the transfer rate is 1.25MB/second. This is half again as fast as the Iomega Zip drive.

The Shark 250, about 0.75" of an inch thick and just 9.7 oz., is small enough to easily fit into the palm of your hand. Since you do not need a separate power supply under most circumstances, the Shark 250 is perfect when you are on-the-go. Nevertheless, it is equally at home on your desktop computer—although you will probably want to have the parallel interface for this use.

Avatar obviously thought long and hard about the introduction of this product and has wisely decided to make all parts of the system available individually in order to let users meet their exact needs. In addition to the parallel and PC Card interfaces, Avatar makes available the power cords ($29.95) that let you draw power from whichever type of keyboard port your system has. A final accessory they offer is a padded carrying case ($19.95). In a recent phone conversation, Avatar also informed me about a $50 manufacturer's rebate in effect through August.

I recently needed to move a large file between two computers. The file was too large for a floppy disk and it was easier to install the Avatar than to install and configure LapLink for two computers. My hope is that in time the company will release even larger hard drives for the package. Because this is truly a portable 2.5" hard drive there is no reason why Avatar cannot bring out larger drives. Currently Avatar is mum on the subject.

I can think of many applications for the Shark 250. If you are suffering from a small hard drive on an older portable, this may be your answer. If you need a way to carry files from system to system, again, this may be your answer.

Since you do not need a separate power supply under most circumstances, **the Shark 250 is perfect when you are on-the-go.**

RESOURCES:

Shark 250, $299
Avatar Peripherals, Inc.
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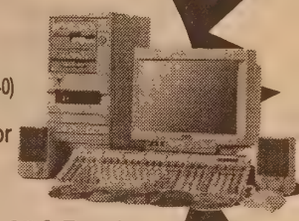

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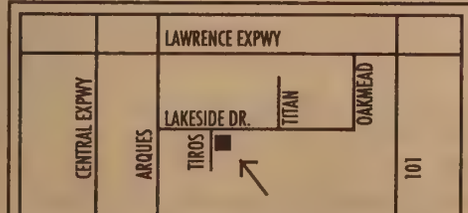

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Laptops *continued...*

Computer Of The Month

The Kiwi OpenNote 680M

In general, I have a prejudice against small manufacturers of notebook computers, but there are exceptions. Kiwi is one of these. They have a design philosophy that I think is great. They have clearly worked hard to overcome some of the most persistent complaints leveled at notebook computers. First, they try to give a lot of computer for a low price and secondly, they achieve this goal by using generic parts as much as possible.

Kiwi's newest top-of-the-line model, the OpenNote 680M, follows this philosophy. Powered by Intel's 166MHz processor with MMX technology, the 680M comes standard with 32MB of RAM, expandable to 64MB. What is unusual about Kiwi computers is that they use standard SIMM memory modules that can be purchased anywhere. This means that you can shop for the least-expensive memory you can find and plug it into your computer. This is a far cry from so many of the manufacturers that design their systems so you are locked into buying expensive, proprietary upgrades.

The 680M comes with a 2.1GB removable hard drive. Kiwi offers two hard drives that can be used for additional data storage. The smaller drive ($199) holds 1GB and the larger drive ($399) holds 2GB. Kiwi uses a modular design so you can configure it just the way you want. On the front are two bays: on the left is a 10X CD-ROM drive and on the right is a 3.5" floppy drive. Both of these can be replaced with either an additional hard drive or the battery that comes with the computer.

In my years of working with notebook computers, I have found that even when I am travelling, I typically work at a single location with access to a wall outlet for power. Kiwi is the first notebook computer that I have seen to acknowledge this kind of user. If you do not need a battery, you can leave it out of the notebook. This not only cuts down on the weight but means you will have access to both the floppy and CD drives—or an extra hard drive. If, on the other hand, you need extra battery power, you can purchase a second NiMH battery ($125).

In general, I have a prejudice against small manufacturers of notebook computers, but there are exceptions. Kiwi IS one of these.

The Kiwi keyboard is pretty standard. One of the things I particularly liked about the Kiwi layout is that there is no Fn key, which many manufacturers design to be used in combination with other keys. Kiwi simply has a NumLock key that will invoke the numeric function of the appropriate keys. I like this layout partly because when there is a Fn key it is often difficult to use a standard keyboard that you can plug into the portable. Kiwi uses a touchpad pointing device that offers as smooth operation as I have found on any touchpad.

The active-matrix color display measures 11.3" diagonally. It offers a good clear image. You can also attach an external monitor through the port on the back.

The OpenNote comes with a pair of PC Card slots that accommodate either two Type I or II cards or a single Type III card. In the old days, many laptops came with built-in modems. Now it is a lot more convenient to use a PC Card modem. Kiwi includes a 33.6Kbps fax/modem card with the 680M. Again, this means that it will be easy to upgrade to a faster modem once the new standards are established.

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- Modem Ring in wake up on Power Management (Li-ion optional)

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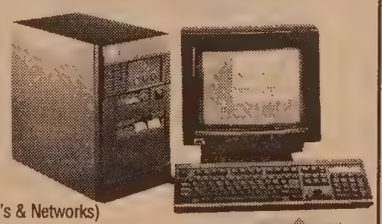

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Laptops *continued...*

In addition to the PC Card slots, there is both a high-speed serial port and an infrared port on the back that give options for how you can transfer files. A port replicator ($150) is available and is convenient for those who use their notebook in place of a standard desktop computer much of the time. This makes having to unplug all of the peripherals every time you want to take your computer with you unnecessary.

The OpenNote 680M is designed as a multimedia computer. It has a built-in Sound Blaster 16 card and a pair of speakers. Of course, for really good sound you will want to attach external speakers to the system through the jack on the side. There is also a microphone jack. Finally, the OpenNote supports MPEG 2 for superior video.

To round out this package, Kiwi provides a carrying case and preinstalls Windows 95. The OpenNote 680M includes a three-year warranty with free parts and labor the first year and parts only in the final two years of coverage. The documentation that comes with the computer is adequate, but not as good as the rest of the system because it is slightly outdated and not tailored as closely to this particular system as I would like.

If you do not need a battery, you can leave it out of the notebook. This not only cuts down on the weight, but means you will have access to both the floppy and CD drives—or an extra hard drive.

This package has a retail price of under $3,000, proving that it is possible to get a good computer with lots of generic parts that you can upgrade for considerably less money than for the better-known brands. ■

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RESOURCES:

OpenNote 680M, $2999
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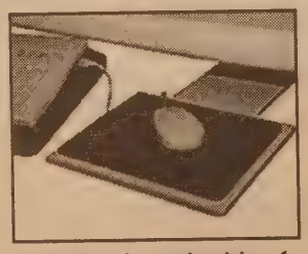

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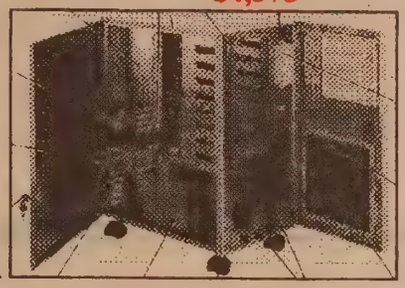

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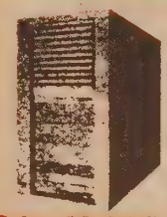

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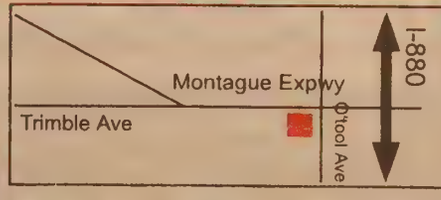

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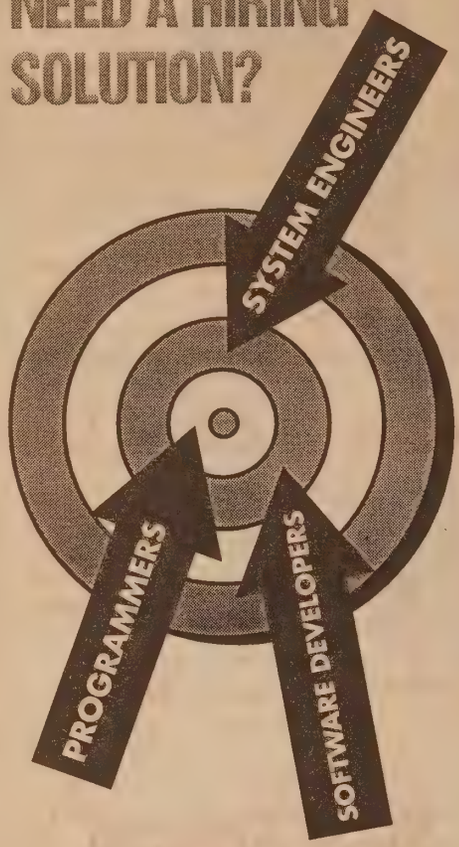

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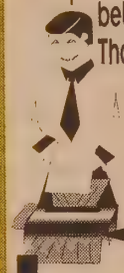

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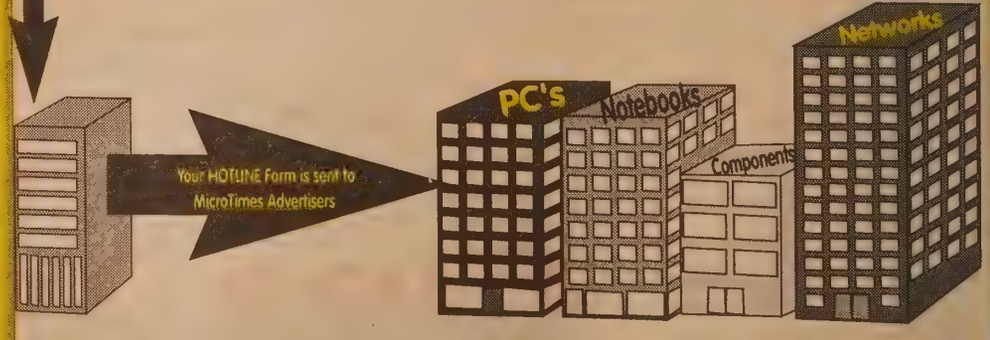

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○ MACPOWER PC ○ MAC QUADRA/PERFORMA

CPU MHz & SPEED:
○ DX4 ○ DX2 ○ DX ○ 5X86 ○ 6X86 ○ Quadra ○ PowerPC
○ 200 ○ 180 ○ 166 ○ 150 ○ 133 ○ 120 ○ 100 ○ 80 ○ 75 ○ 66

BUS TYPE: ○ PCI ○ VLB ○ EISA ○ ISA

CACHE: ○ 64K ○ 128K ○ 256K ○ 512K

RAM: ○ EDO ○ 2MB ○ 4MB ○ 8MB ○ 16MB ○ 32MB ○ 64MB ○ 128MB

MONITOR: ○ SVGA ○ VGA ○ MONO ○ 26 DPI ○ 14" ○ 15" ○ 17" ○ Non Interlace ○ 28 DPI ○ 20" ○ 21" ○ Multisync

HARD DISK DRIVE: ○ 100MB+ ○ 800MB+ ○ 1GB+ ○ 2.5GB+ ○ 4GB+ ○ IDE ○ SCSI ○ ZIP DR ○ JAZZ ○ 2GB+ ○ 3GB+ ○ 6GB+

FLOPPY DRIVE: ○ 1.44MB and/or ○ 1.2MB

FAX MODEM: ○ Internal ○ External ○ 33600bps ○ 14400bps ○ 28800bps

CASE TYPE: ○ Mid Tower ○ Desktop ○ Full Tower

VIDEO CARD RAM ○ 512KB ○ 1MB ○ 2MB ○ 3MB ○ 4MB

POINTING INPUT DEVICES: ○ Any Mouse ○ MS Mouse ○ Keyboard ○ Serial ○ Bus ○ PS2 ○ Trackball ○ Joystick ○ Ball Point ○ Pen

OPERATING SYSTEM NEEDED: ○ Windows 95 ○ OS2/Warp ○ Win NT ○ Mac ○ UNIX ○ DOS/Windows 3.11

STEP THREE: MULTIMEDIA UPGRADE ○ Please Add To Step 1 & 2 Quotation ○ Please Quote Me Separately

CD ROM DRIVE: ○ Internal ○ IDE ○ SCSI ○ External

CD ROM TITLES INCLUDED: ○ 1-5 ○ 5-10 ○ 11+

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CD ROM Brand Name and Model Number

SOUND CARD: ○ 16Bit ○ 32Bit

SPEAKERS: ○ Less Than 25W ○ 25 to 50W ○ 50 to 75W ○ More Than 75W

STEP FOUR: NOTEBOOK SECTION - Please Note You Must Make Choices In Steps 1 & 2 To Complete Step 4

SCREEN TYPE: ○ 10" ○ 11' ○ 12' ○ Active Color ○ Dual Scan ○ 13'

PCMCIA SLOT: ○ Type II ○ Type III ○ Type IV

○ Audio Capable ○ Docking Station ○ Extra Battery ○ Fax Modem ○ CD\MultiMedia

STEP FIVE: NETWORKING NEEDS: ○ Please Contact Me on My Networking Needs Indicated Below

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STEP SIX: UPGRADES & PERIPHERALS: ○ Ink Jet Printer ○ Tape Backup ○ Accelerator ○ Digitizer

○ Laser Printer ○ Color Printer ○ Dot Matrix Printer ○ Flat Bed Scanner ○ Hand Scanner

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NETWORKING • BY PETER JOHN HARRISON

Virtual Private Networking

Using The Internet To Support LAN Telecommuters

Providing telecommuters with remote access to corporate LAN resources is a touchy issue for many network administrators. When a network administrator opens up a LAN to remote access, he (or she) gives up some of the security and control that is inherent when a person is physically in the building when they log on. Remote access to the LAN is also expensive—supporting a single telecommuter can easily cost thousands of dollars a year.

These and other obstacles aside, remote access is also a growth industry. Today's workplace is more mobile, more dispersed, and more dependent on LAN and network resources than ever before. Where just a few years ago members of a remote sales force could get by with nothing more than the ability to retrieve their email messages, now they tend to need full network access to databases and other LAN resources. Executive officers and managers have become dependent on corporate network resources, so they, too, are demanding flexible dial-up access to network resources when they are traveling. And, finally, longer commute times and efforts by regional governments to reduce traffic and air pollution are forcing employers to implement telecommuter programs that are moving employees away from the traditional workplace and into their homes.

TODAY'S WORKPLACE IS MORE MOBILE, MORE DISPERSED, AND MORE DEPENDENT ON LAN AND NETWORK RESOURCES THAN EVER BEFORE.

The point is, like it or not, remote LAN access for employees when they are on-the-road or in-their-homes is here to stay. The challenge network administrators are facing is how to setup and maintain a working remote network access solution that is secure, easy to administer, flexible, and cost-effective. And the best solution for meeting their needs may come from a traditionally suspect source—the Internet.

Accessing corporate resources through the Internet is not a new idea. People do it every day when they bring up corporate Web pages and sales catalogs. We even send sensitive information, like credit card numbers, across the Internet using encryption techniques that help keep our communications private. The thing about these applications is that they provide access to a small, well-defined part of a corporate information architecture. That makes it much easier to design a networking solution that keeps both the data being sent and the rest of the corporate network safe and secure. The problem with LAN access is that it, almost by definition, provides access to an enormous slice of the corporate information pie. So, the thought of providing remote LAN access over the Internet, which has a long and notorious history for being the tool of choice for computer crackers, data thieves, and saboteurs, makes most network administrators—including me—very nervous.

So, last year when Microsoft and Cisco each announced similar, but not quite identical products for providing remote LAN access over the Internet, most network administrators were justifiably skeptical. Microsoft's Point to Point Tunneling Protocol (PPTP) and Cisco's Layer 2 Forwarding (L2F) protocol both incorporated a similar technique, called "protocol tunneling," to encapsulate private network traffic inside TCP/IP packets sent over a wide-area network (WAN).

Protocol tunneling has been around for a long time. My first exposure to it came when I needed to connect two LANs at two remote locations using my employer's TCP/IP LAN/WAN environment. TCP/IP, which was designed with wide-area networking in mind, is the protocol tool of choice for many network administrators when they set up their wide-area network. The problem is that most Novell NetWare environments employ a different protocol, IPX, for communications between workstations and servers. The basic idea behind a tunnel is that it allows a network administrator to link remote IPX LANs together by tucking IPX protocol "packets" into the data payload of TCP/IP packets. The encapsulated packet can then be sent through any TCP/IP network to a destination where the TCP/IP wrapper is discarded, and the IPX protocol message passed on to the destination LAN.

The difficulty with traditional tunneling is that it does not make any effort to encrypt the tunneled data or verify that the tunnel's source and destination are legitimate endpoints. Anyone with a network analyzer or high-powered router can capture the data being sent while it is in transit, strip the TCP/IP wrapper off, and figure out exactly what information is being sent. The threat of having network traffic captured and subverted is not a concern when you are using the corporate network to transmit

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data, but the Internet is another matter entirely. Considering the Internet's history, sending sensitive private information across the Internet without encrypting it is very risky business.

So Microsoft and Cisco take a different approach. They encrypt data being sent through their tunnels using a scheme that changes the encryption key on the fly, making it very hard for a potential data thief to get enough data to crack the encryption key. They also use a "challenge" approach to verify what is at each end point of the tunnel without revealing each endpoint's password. Microsoft and Cisco claim that these two security tools, when combined with traditional security mechanisms like passwords, make using the Internet as a remote access tool almost as secure as traditional dial-up connections used by telecommuters.

PPTP and L2F could be useful tools for connecting a smaller office to a larger corporate LAN, but for the most part faster and more dependable leased-line and frame-relay connections are a better solution. The real power of L2F and PPTP come from their ability to turn the Internet into a *Virtual Private Network* (VPN) that individual remote users can use when they need to "dial-in" to the LAN. There are many reasons why using VPN dial-up access is attractive. First, you can manage your central-site connection to your users using a single leased-line connection to an Internet Service Provider. There is no need to maintain and pay for telephone lines and racks of modems, or to upgrade your modems when technology changes—that becomes the job of your telecommuter's ISP. Next, because many ISPs offer unlimited local dial-up access at locations throughout the country at a very low price, a company that uses the Internet as its dial-up access solution can save a substantial amount on long-distance and toll-call charges. Finally, it is also a solution that scales well—a network administrator that uses an Internet VPN can easily add new users without having to add dial-up capacity at the central dial-in site. And because many Internet Service Providers offer ISDN access at a very affordable price, it is also easy to provide telecommuters with fast ISDN at a cut-rate price.

THE RAPID GROWTH IN TELECOMMUTERS IS FORCING A CHANGE IN PHILOSOPHY FOR HOW TO SUPPORT REMOTE USERS.

The only problem with L2F and PPTP is that, until just recently, you could not get it. Cisco's original idea, for example, was that ISPs would offer L2F as an additional-cost service to their customers, and very few ISPs took the bait. Microsoft's PPTP was only available on its Windows NT server platform—which does not do much for the majority of telecommuters that use Windows 3.x, Windows 95, and Macintosh. In fact, I thought that without Windows 95 and 3.x client software the whole concept was kind of useless.

Finally, late last spring Microsoft finally announced a Beta dial-up networking client for Windows 95. Then, last June, a third-party company, Network TeleSystems, announced PPTP dial-up networking clients for Windows 95, Windows 3.x, and Macintosh. The introduc-

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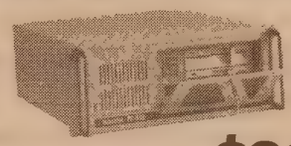

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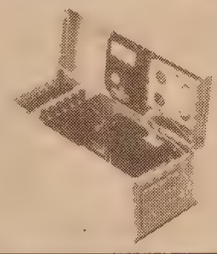

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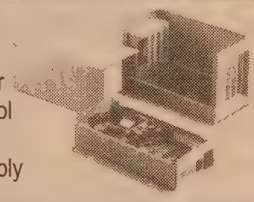

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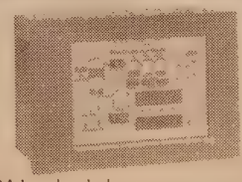

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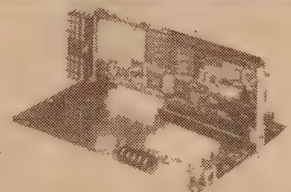

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tion of these dial-up network clients makes VPN networking over the Internet a viable option for many network administrators.

Implementation of a PPTP VPN is fairly straightforward. Windows NT Server 4.x comes with PPTP "server" software, which is fairly easy to setup and install. You also need a connection to the Internet with a firewall that filters out outside attempts to access workstations and servers that should not be available to unauthorized Internet access. At the client end, you install an upgraded dial-up networking tool, a modem, phone line, and sign the user up for an Internet account.

And that's it. You control access to the LAN through the PPTP pipe using standard, familiar NT administrative tools, so it is even easy to maintain, and appears to be secure from unauthorized access. My only worry is that I am still uneasy about allowing access to my LAN over the Internet, but I think it is a fear I will have to learn to live with. Besides, I think a little paranoia is a good thing—a paranoid network administrator is more likely to keep a close eye out for potential intruders.

Network administrators like me will probably have to get over—or learn to control—our fears. The rapid growth in telecommuters is forcing a change in philosophy for how to support remote users. What we need is a mass-market tool. In the months ahead, PPTP and its eventual successor, Layer 2 Tunneling Protocol (a joint standard from Cisco and Microsoft that is working its way through the standards approval process), will probably become that tool.

As a concept, I think Virtual Private Networking it a really great idea. It will save money and time, while simplifying both end-user and administrative process of setting up and connecting telecommuters to our networks without compromising security. And those are goals that every network administrator has to like. ■

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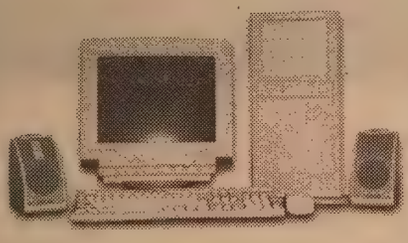

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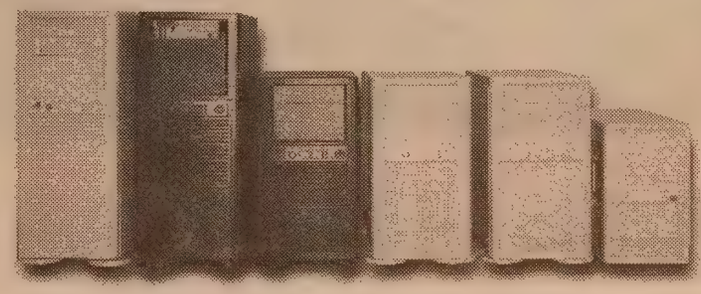

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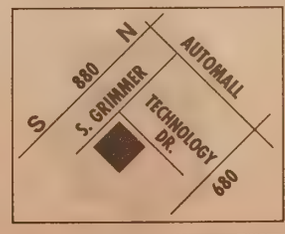

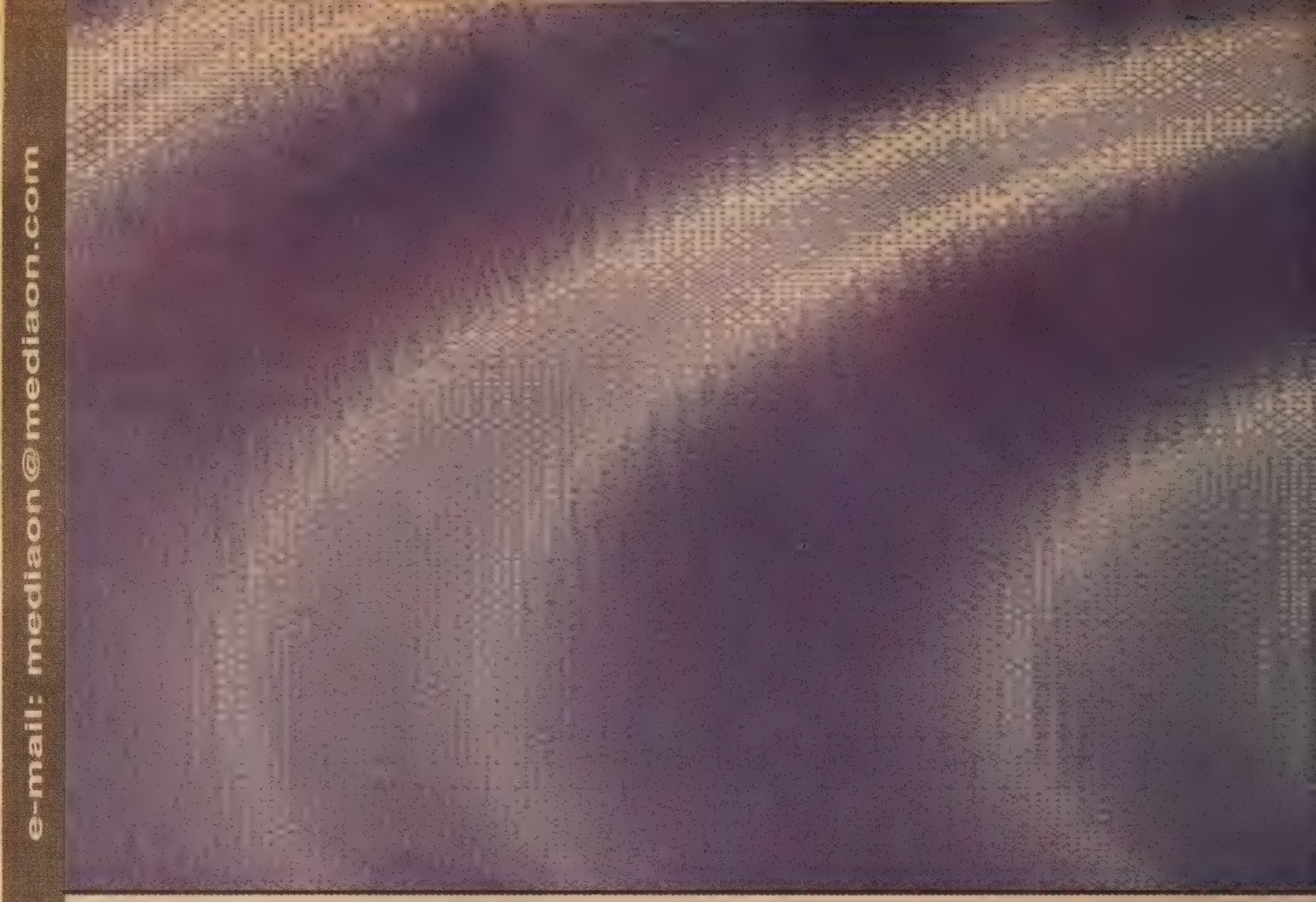

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TELECOMMUTING • BY ROBERT MOSKOWITZ

Telecommuting Can More Easily Aid The Disabled

New Efforts To Remove Obstacles To Increased Employment Of Individuals With Severe Mobility Impairments

While telecommuting offers a great many interesting and exciting advantages for all sorts of industrial and population groupings, it is used to further economic development, and justified primarily on this basis, a lot more often overseas than in the US.

One way we may be catching up to Europe and the rest of the world is through a current effort to promote telecommuting as an aid for those with physical disabilities that would normally make regular commuting to a workplace very difficult. (Remember, though, that hiring telecommuters does not release an employer from the applicable requirements under the Americans With Disabilities Act and other laws to equip workplace facilities for easy access to all.)

The strongest such initiative has been pushed by the National Telecommuting Institute (NTI), in conjunction with the President's Committee on the Employment of People with Disabilities. Their plan is relatively simple: employers that hire low-income, homebound individuals with disabilities should not have to pay for any of the voice and data line charges incurred on connections between the employee and the company.

In addition, the NTI's proposal suggests that if a homebound individual needs training to prepare for a telecommuting position, the cost of connecting the trainee to the trainer via telephone lines should also be free to the parties involved.

To compensate the service providers who lose income from such a policy, support should be provided from existing "universal service" support mechanisms.

The basic premise is that eliminating long-distance telephone charges would send a signal to employers that hiring the disabled and homebound need not cost anything extra. More practically, it would also remove one of the important obstacles to increased employment of individuals with severe mobility impairments, allowing them to join the nation's workforce as telecommuters in greater numbers than ever before.

To date, the number of employers offering full-time telecommuting jobs to physically disabled candidates is very small. A key reason is that even when jobs are made available, the cost of connecting to the employer's offices on a regular basis using standard voice or data lines, and in some cases a long-distance service, can be prohibitive.

As many employers have already found out, disabled individuals constitute a wonderful workforce for certain types of jobs. They greatly value their jobs, leading to very low turnover, higher levels of motivation, and candidates with relatively strong qualifications for most open positions.

The problem is that homebound individuals with disabilities are often prevented from finding useful employment because of the difficulties of traveling to job interviews, training venues, and work sites. This is a shame, because these are often fully capable people who, in many cases, could work full-time jobs if they would be allowed to do so as telecommuters.

A 1994 survey of Massachusetts vocational rehabilitation counselors found that about 12% of the individuals receiving vocational rehabilitation services could perform and would accept a wide range of jobs if they were able to work from home, but could not perform the same types of work if they were required to report to the employer's location every day. The nature of these individuals' disabilities, coupled with their limited transportation options, simply made it too difficult for them to hold a conventional on-site position.

In 1995, a total of 1,250,314 individuals with disabilities nationwide received state vocational rehabilitation services. There were even more people who were disabled and looking for work, but unable to find it.

If you extrapolate the 12% finding in Massachusetts to people in state vocational rehabilitation programs nationwide, there appears to be an estimated 150,000 homebound individuals who can and would work if given the opportunity to telecommute.

***One way** we may be catching up to Europe and the rest of the world is through a current **effort to promote telecommuting as an aid** for those with physical disabilities that would normally make regular commuting to a workplace very difficult.*

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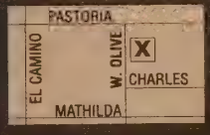

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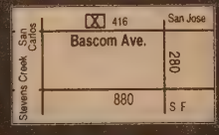

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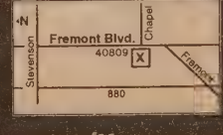

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Telecommuting *continued...*

State vocational rehabilitation agencies are usually willing to incur the one-time expense of providing homebound individuals with the computers and software they need to work as telecommuters. However, there is no funding source available to cover the ongoing expenses of telecommuting, including any long-distance telephone charges.

Although the direct cost of covering the long-distance charges incurred by disabled employees who are telecommuting might run into the millions of dollars per year (it takes only 840 telecommuters making $100 per month in long-distance telephone calls to generate more than $1 million in annual long-distance charges), the benefits of such a change would be far more enormous.

For starters, such a change would drastically reduce the need for federal and state governments to provide public assistance benefits to thousands of homebound individuals, who could suddenly earn a great deal more money than ever before. Increasing the number of homebound individuals in the workforce would also increase the number of productive individuals, the number of taxpayers, the need for related business and personal services, and so on.

For starters, such a change would ***drastically reduce the need*** *for federal and state governments to provide public assistance benefits to thousands of home-bound individuals, who could suddenly earn a great deal more money than ever before.*

For more information on the effort to get long-distance charges dropped for disabled telecommuters, contact: Dr. M.J. Willard, National Telecommuting Institute, 1505 Commonwealth Ave., Boston, MA 02135. (617)787-4426; fax: (617)787-3806. Email: *mjwillard@nti.org*.

Another Interesting Phone Product

The Personal Assistant is a pure phone service offered by Call Sciences, a company based in Edison, NJ, that's beginning to offer its services nationally. They've just rolled it out for use with local telephone numbers in Southern California, Chicago, Miami, and New York, but it's available anywhere via 800 numbers instead of local ones.

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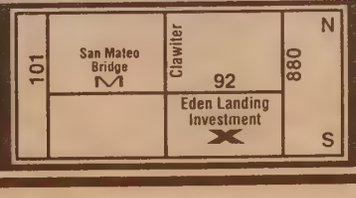

Telecommuting *continued...*

people can dial to reach you, regardless of where you might be at any given time, and regardless of what telephone, email, voicemail, cellular, or wired-in telephone services you're purchasing from any other companies. Personal Assistant requires no hardware or software at your end of the line, and it allows you to gain very tight control over all your inbound and outbound communications activities, regardless of how many different places you visit, live, and work.

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When you retrieve your voice messages, you can scan through them and decide how to handle each one: erasing it, saving it, forwarding it to one or more other people, or immediately returning a call. Messages that callers mark as "urgent" are moved to the head of the queue, so when you pick up your messages you hear them first.

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continued on page 68

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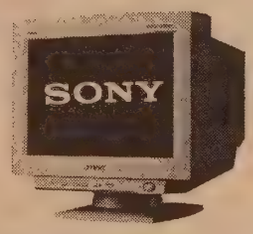

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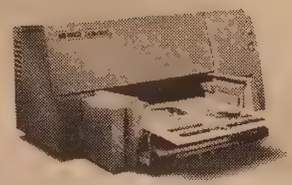

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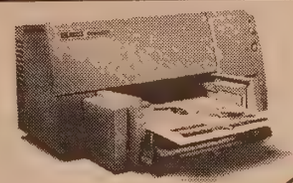

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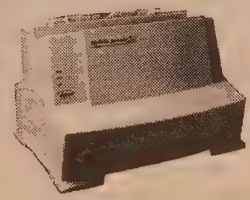

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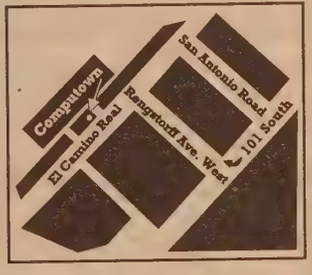

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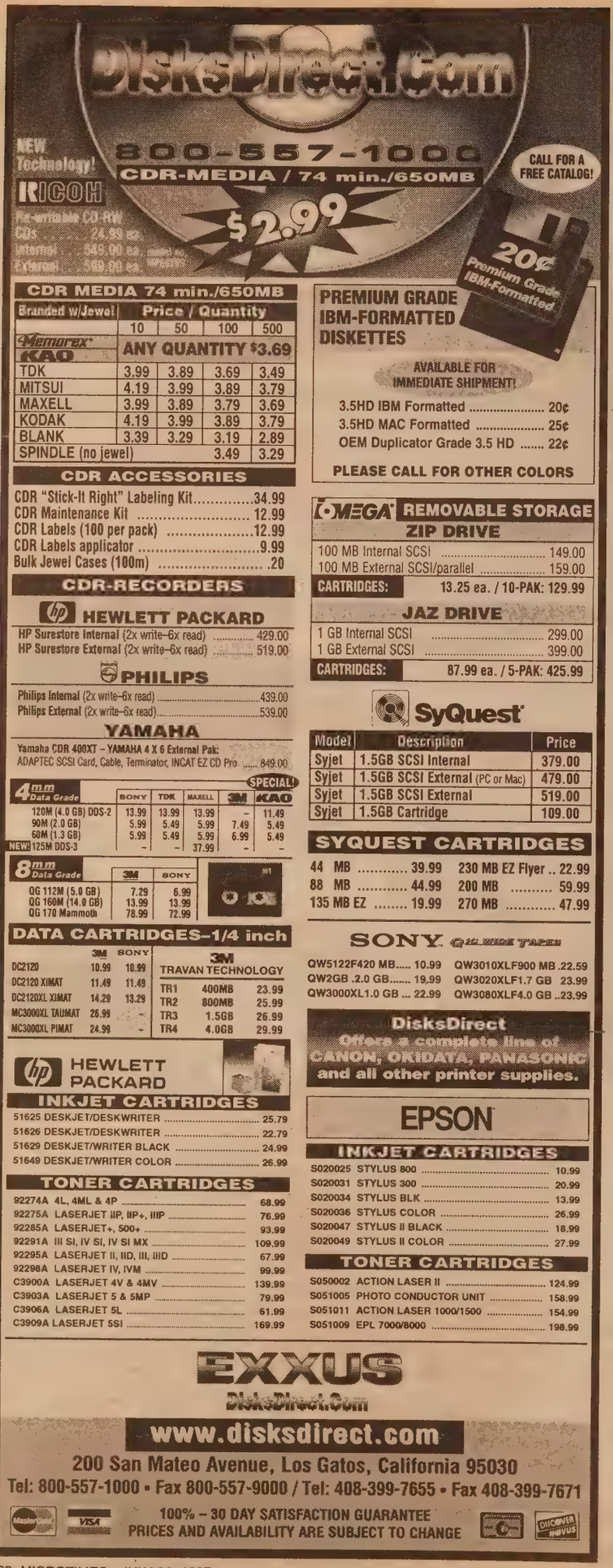
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Business Solutions

Telecommuting *continued from page 64*

with a return call from within Personal Assistant, you can instantly resume hearing the remaining messages in your voicemail.

Personal Assistant can remember a complete week's schedule of where you'll be, including different "follow me" options for days, evenings, and weekends—plus days and hours when you want to be unavailable. This gives the Personal Assistant a wide range of choices of where to try to find you at any time of the day or night that someone tries to call you.

But as your schedule changes, you can override your default schedule instantly, at any time, with new instructions about how to handle your incoming telephone calls. These special instructions can remain in force for as long as you like, up to 999 hours, before the Personal Assistant goes back to following your default schedule.

You can also give out your single Personal Assistant number to people for use as both your voice and your fax line. The Personal Assistant can easily distinguish between the two types of calls, and handle each one differently. For example, you can schedule (or override the default schedule) to have your faxes sent to a particular fax number where you'll be to receive it, or you can have your incoming faxes held in storage for pickup whenever and wherever you want it.

If you call in for your messages, you can hear the "envelope" information for each fax message you've received, which includes the sending phone number, the date and time, and the number of pages sent.

Even better, you can log onto the Web and access your Personal Assistant system, where you can ***preview your faxes right on your screen.***

Even better, you can log onto the Web and access your Personal Assistant system, where you can preview your faxes right on your screen. Then if one seems important, you can send it to a fax machine for printing, forward it to others, or save it for later viewing.

There's also a "call screening" feature that allows you to choose whether the Personal Assistant just switches each call to you, or first gives you the option of accepting or deferring the call.

If you use a pager, the Personal Assistant can page you when you get a call, with—depending on the capabilities of your pager—a great deal of information about the caller.

If you prefer, Personal Assistant can even send you a electronic message notifying you that a call has come in.

Callers have options, too. For example, a caller can press 1 to leave a message in your voicemail, or can press 0 to connect with a human attendant (if you've enabled this option), or can press 3 to get connected to your pager.

Personal Assistant includes powerful voicemail capabilities. It will dial the phone numbers of individuals or lists of individuals and with each of them leave your message or a message originally left for you. It can also forward and broadcast faxes.

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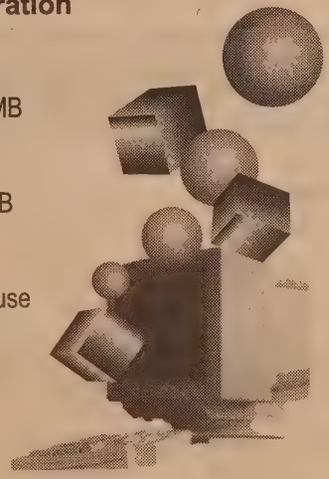

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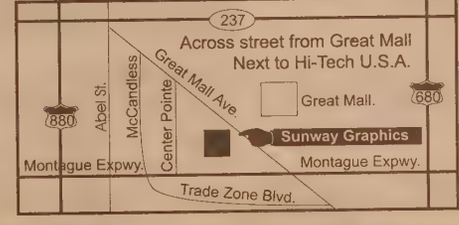

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Telecommuting *continued...*

Once you've accepted a call, you can still transfer it back to your own voicemail. This is useful if you've finished discussing a matter with a caller and now he or she wants to give you a follow-up phone number or the detailed figures relating to a particular project. If you've taken the call in your car, or in the middle of a jog, you may not want to get out a pencil and paper to take notes. So you can simply ask the person to leave the information with your voicemail, then transfer the call and hang up.

Call Sciences has designed the Personal Assistant system to be useful for telecommuters who move around among several specific locations, for "hoteling" workers who don't have a dedicated workspace, for consultants who work at various client sites but need a single stable phone number where others can feel confident of reaching them, and for today's highly mobile executives who are constantly traveling but can't afford to be out of touch.

Because Personal Assistant is entirely a standalone service, it leaves you free to get your telephone, paging, email, and other services from any supplier you wish. Your Personal Assistant service can accommodate them all, and instantly reflect any changes you make, as often as you want to make them.

One of its most comforting features is the "availability codes" for use by callers. You can activate as many as five independent ones. One for your significant other, one for your boss or partner, and the others for clients or customers who may temporarily need to reach you on a moment's notice. When a caller punches in one of these "availability codes," he or she can override the system and get through to you, even when you've told the Personal Assistant to tell everyone you're unavailable. Once you change one of these availability codes, the people to whom you've given it are no longer able to override your Personal Assistant settings.

For more information on The Personal Assistant, contact Call Sciences at 1-888-877-4225, or check their Web site at *http://www.CallSciences.com*. ■

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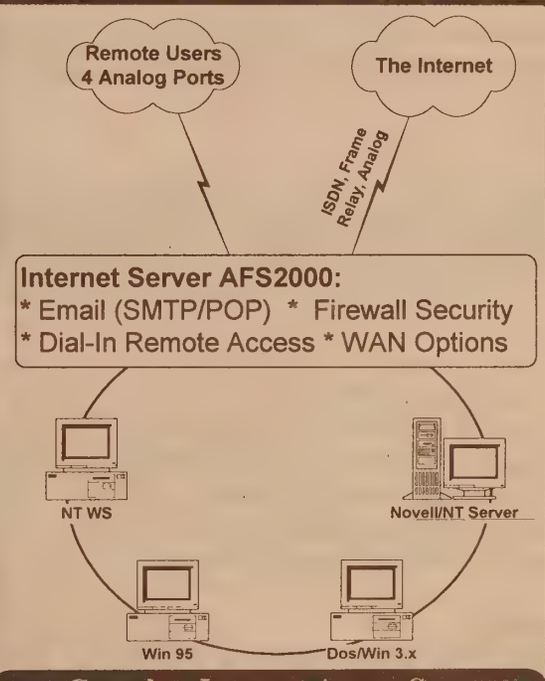

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UNIX • BY BENNETT FALK

Learning The Strange From The Familiar

Sun's Java WebServer

In early June, Sun announced the availability of the Java™ WebServer™. This unwieldy name invites the casual observer to become an amateur philosopher and to speculate on the meaning of multiple trademark symbols in a single product name. Does the second "™" apply only to "WebServer" or to the whole name? Do these "™" symbols obey the principle of Distributivity? Could the name be parenthesized differently and still be the same?

Unwieldy though it may be, the name seems to say it all: Sun's new product is, in fact, a Web server written in Java. (It shares this honor with the World Wide Web Consortium's Jigsaw Web Server.)

Sun's Java-based Web server project was first introduced at the 1996 JavaOne Conference under the name "Jeeves." The objective is to produce a platform-independent Web server that performs well and is easy to administer.

Testing

Following the announcement of the Java WebServer, an evaluation copy was duly downloaded and installed on an NT machine. The installation was painless; the server booted successfully on the first attempt and served up Web pages as advertised.

Administering the server was also straightforward, but the administrative interface is implemented entirely in Java and has the Java look and feel: it's different from both HTML-based administrative tools (like Netscape's) and Windows-based administrative tools.

Beyond the administrative interface, the Java WebServer boasts the ability to change configurations on the fly (without interrupting the HTTP service).

Performance was surprisingly good. A test of the server's ability to deliver static HTML was run using the Webstone Benchmark Framework. A 10K page was retrieved continuously over a 2 minute period. The test was repeated for different numbers of clients (from 1 to 5). The Java WebServer's throughput on these tests was essentially identical to that of a 2.0 Netscape Enterprise Server.

The Deeper Question

Strictly speaking, the Java WebServer seems to have achieved its objectives. The lingering question is "Does the world really need another Web server?"

In purely objective terms, the answer is "Probably not." A glance at the Web server market will explain why.

Each month the Netcraft Web Survey provides a snapshot of the Internet's Web server population. The June 1997 survey included 1,117,255 Internet Web sites and reported that Apache Servers powered nearly 44% of the sites surveyed. (Apache is a public domain Web server originally based on the NCSA Web server, and now largely rewritten.) Microsoft Web Servers placed second with 16.66%; Netscape Servers represented just over 12% of the sites.

The June Netcraft survey also registered the presence of roughly 600 different brands of Web server currently active on the Internet. Of these 600 different kinds of server, only nineteen have an Internet presence of more than 5000 sites; 223 Web server brands have an Internet presence of a single site.

It should be noted that the Netcraft Survey does not include intranet sites that are shielded from public view by firewalls. A survey that included those sites might change the market shares of the leading Web server brands, but it wouldn't change the fact that the Web server market is difficult, if not impossible, to penetrate.

The heavily trademarked Java WebServer is unlikely to capture much market share. And that leads to the really fundamental question: What is the point of this product?

The point is that the Java WebServer is not just a Web server: It's an educational tool. It's possible for a Web server to be an educational tool because the Web is not just big, it is also familiar. Part of what Sun is doing with the Java WebServer is using the familiar to introduce something less well-known.

Java Pedagogy: Applet, Servlets, And Beyond

The lesson the Java WebServer teaches is about two things: the usefulness of Java and how applications are built.

To date, Java has been perceived largely as a language for creating applets. Applets are small

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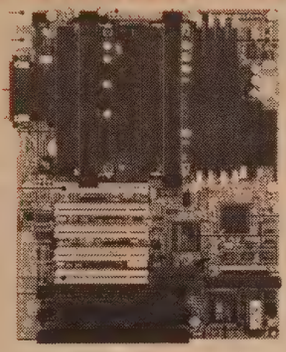

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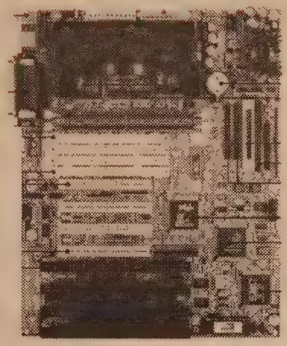

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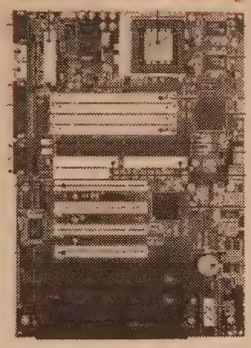

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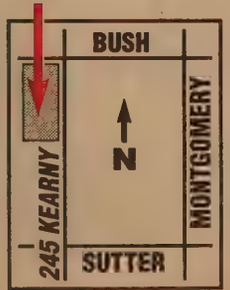

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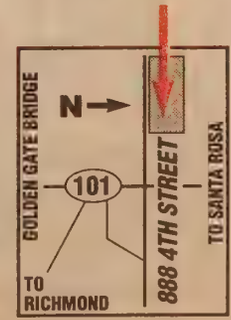

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programs that perform some useful, usually very specific, application function. They're typically small enough to be downloaded and begin executing before the user loses interest. (The critical factor in Web performance really is the user's attention span.) Applets run in an execution environment provided by a Java-enabled browser, and ordinarily applets provide a user interface for the application services they implement.

Obviously the Java WebServer is larger than an applet, is not dependent on a browser-based context, and performs many functions that have nothing whatsoever to do with user interfaces. Like other servers, it is expected to run continously and provide services with a minimum of administrator intervention. Just by existing, the Java WebServer is a reminder that Java is a general purpose language.

But there is more to the Java WebServer than a proof of concept that Java is a good language for servers and other large programming projects. The Java WebServer also supports a unique approach to user-created extensions of the server's capabilities.

These days "extending the capabilities of Web servers" has become a kind of Holy Grail for a very large segment of the software industry. And naturally, there is no shortage of schemes for achieving this goal.

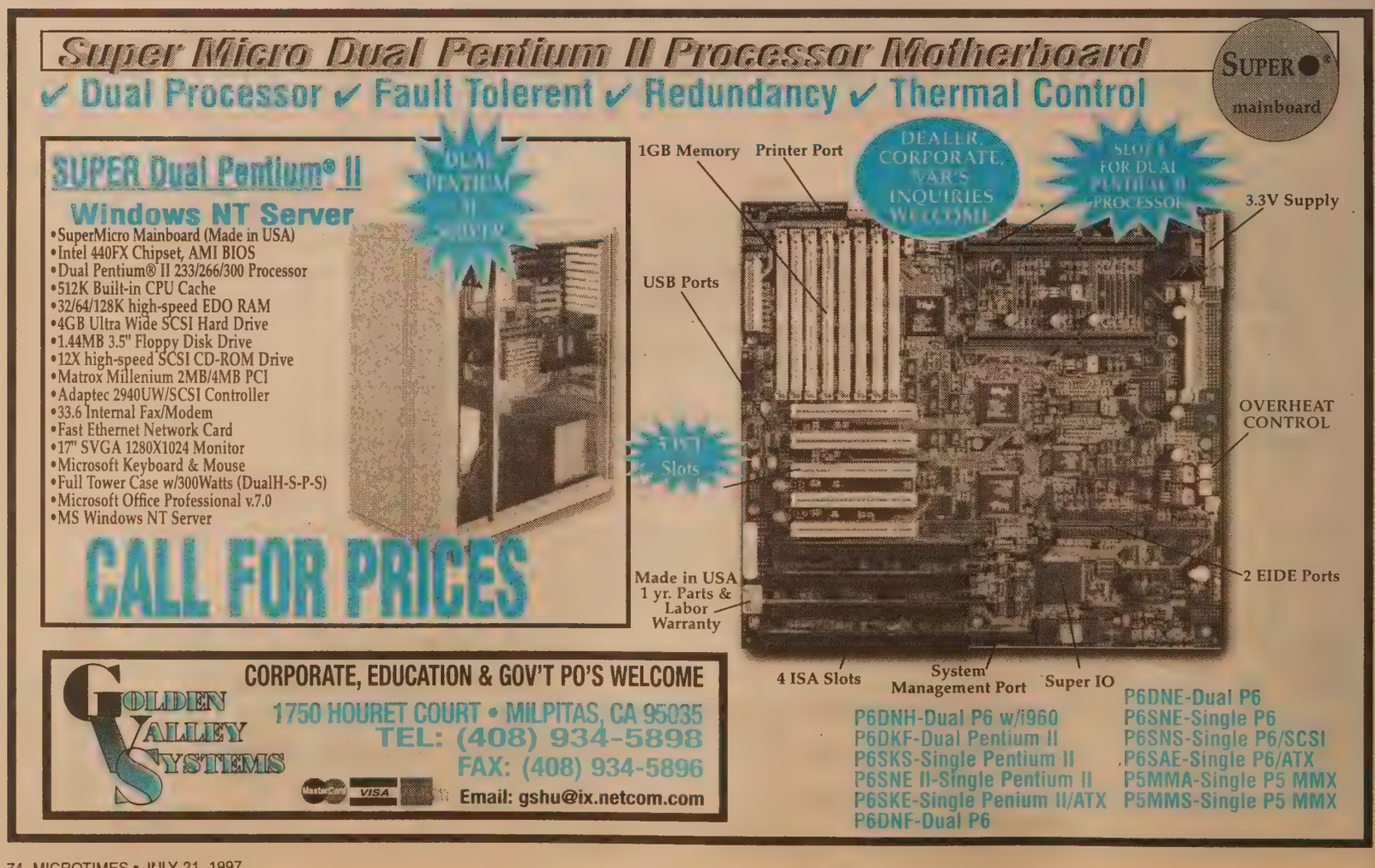
Adding new capabilities to Web servers is what the Common Gateway Interface (CGI) is all about. CGI provides a heavyweight, freestanding general-purpose gateway. (CGI is "heavyweight" because the extensions it enables are independent processes that must be started up and shut down each time the extended functionality is invoked.)

The popular commercial Web servers from Netscape and Microsoft both have proprietary APIs (NSAPI and ISAPI respectively) that allow user-provided programs to share the Web server's process space. This avoids the overhead of starting and stopping processes external to the Web server, and consequently the proprietary APIs offer significantly better performance than CGI.

The price of this performance is that the proprietary APIs require more programming skill than CGI: A poorly constructed program using a proprietary API can crash the Web that hosts it.

The Java WebServer offers a different model for extending the Web server's native capabilities. Extensions take the form of servlets. (According to the press release, that should be "Servlets™"; the good folks at Sun seem to be trademarking everything in sight.)

Servlets are small programs, roughly analogous to applets. The major difference between applets and servlets is that servlets are executed on the server side: They run in a Java environment provided (in this case) by the Java WebServer. The Java WebServer implements a "servlet API" which allows servlets installed on the same Web server to share data and to invoke other servlets.



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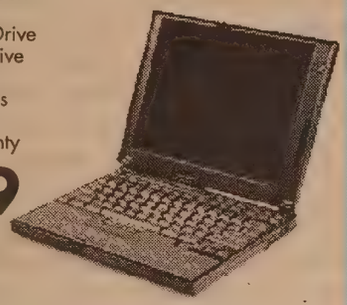

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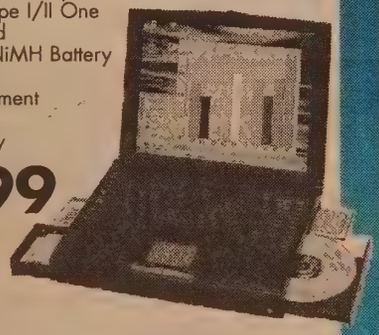

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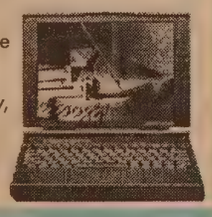

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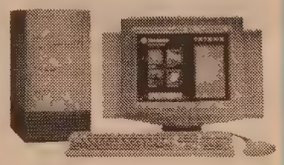

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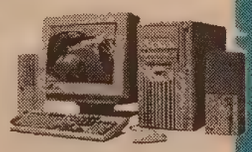

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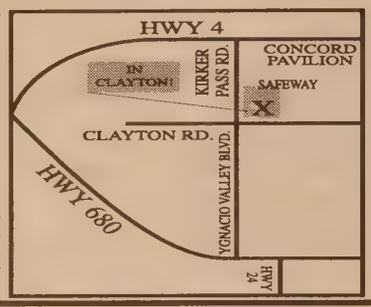

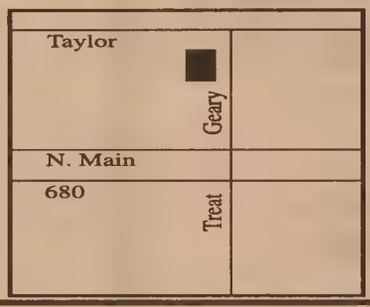

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Servlets can be written to perform just about any kind of application-related task. They typically have no user interface of their own: A servlet communicates to the user through the Web server or by interacting with an applet that is a client for the services the servlet implements.

As a mechanism for extending Web servers, servlets offer some advantages over both CGI and other proprietary APIs. Because they're executed as part of the hosting process, servlet-based extensions should offer better performance than CGI-based extensions. Because they're written in Java, servlets offer some protection against the common problems that arise from poorly written programs that use proprietary APIs: They won't trash the host program's memory space.

Servlets also represent a more fine-grained variety of server extension, and this modularity has some advantages for server administrators. Without stopping and restarting the host process, the administrator of a Java WebServer can fine-tune the server's extended capabilities by adding, deleting, or replacing individual servlets.

The single most important feature of the Java WebServer is that it offers a context for playing around with servlets. The primary objective of the Java WebServer is to expose the idea of servlets to a larger audience.

And not long after this larger audience encounters the notion of servlets, it will also encounter the idea that servlets are more than just a device for extending Web servers.

Middleware Unveiled

Servlets are a useful element for the design and programming of "middleware" in general.

"Middleware" is application software that runs somewhere between where the user sits (the client side of an application) and where the data is stored (the application's server side). Middleware is useful for implementing business rules that need to be independent of where their data comes from and for directing traffic in complicated applications.

Business applications that have three (or more) tiers are more versatile than two-tier (or client/server) applications. The difficulty is that middleware is largely invisible: It has no user interface and it does not take up gigabytes of disk space. Because it's invisible, middleware is often misunderstood, or simply assumed not to exist.

This, finally, is why the Web is important and why Sun is using the Java WebServer as a vehicle for introducing the notion of servlets. A Web server is actually a piece of middleware.

Unlike most middleware, Web servers are highly visible (to date, they are the only middleware to achieve a noticeable presence on network television). Unlike most of the other familiar things on television, however, a Web server can be more than just another piece of celebrity software. ■

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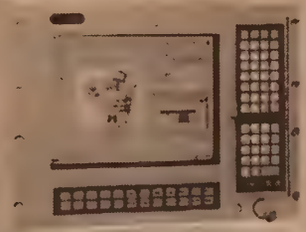

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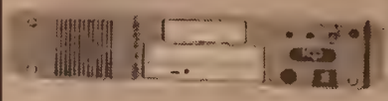

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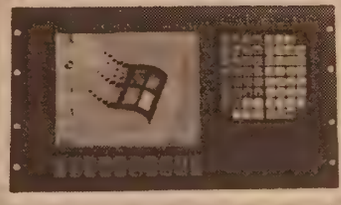

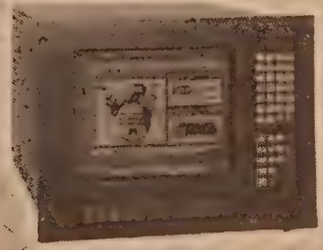

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Hardware Updates For The Small Office

Tried And True Standards

We in very small businesses are not in a position to go too far out on a limb. We need to buy products that will work well with those of other people. Economics force us to a certain conservatism.

Of course, anyone who runs a business is inclined to be careful, but in our small office we need to have devices that will interact well with as many other people's products and messages as possible. But we don't want last year's standards—we want our investments to last for at least one product cycle. In the world of sound cards and modems, we need to divine the standards that do not yet exist.

How do we combine this need to be cautious with the need to select good innovation? To my mind, it is a two-step process: It means asking around to discover what new technologies all the knowledgeable people are talking about. Then we ask a second question: Are any familiar vendors doing it well? It's not just a matter of asking if the old familiar players are doing it at all—are they doing it in a way that is getting the respect of reviewers, large purchasers, and industry gossip?

When we ask these two questions, we are betting on the innate conservatism of others. If a familiar name is doing a new technology well, many other cautious people will also be settling on those products. That means that we will be buying into something that is almost certain to become a standard. Usually. Often. Don't hold me to this. But it is the best available wager.

This strategy of betting on the likely standard may grate against the temperament of innovative small entrepreneurs. I would not suggest that we do this in every aspect of life, or the originality on which we live would die out. But communication is inherently conservative. The unprogressiveness of communication is why we still understand Shakespeare and the King James Version of the Bible, written 400 years ago and 6,000 miles away.

A Blast Of Sound

In the world of Windows sound, the standard to meet is the SoundBlaster. Sim Wong Hoo founded Creative Technology in Singapore in 1981, and made his name with a product that could speak in Chinese. When the company came to the US in 1988 they introduced the GameBlaster and in 1989 the SoundBlaster. Within one year it was the best selling add-on card in the PC market.

Many sound cards say they are SoundBlaster compatible. Having crashed and burned while trying to review products with my "compatible" sound card, I can tell you that often "compatible" ain't.

This strategy of betting on the likely standard may grate against the temperament of innovative small entrepreneurs. I would not suggest that we do this in every aspect of life, or the originality on which we live would die out. But **communication is inherently conservative.**

So when I thought of finding the latest in sound cards, I immediately called Creative Labs, the maker of the real, genuine, accept-no-substitute SoundBlaster. Any product from Creative Labs will be imitated by other manufacturers, so their work seems a safe upgrade path for someone on a small budget.

The SoundBlaster comes in a number of flavors for people who want to spend different amounts of money. Creative Labs was kind enough to send me their current top-of-the-line, the AWE64 Gold. It has 4MB of onboard RAM, and no onboard amplifier. They know that people who buy this board will want to feed its output into a good amplifier of their own. It retails for about $200 (ouch!). It is remarkable for the collection of things that you get with it.

First of all, there is the board itself. It is a full-bore sound system designed for recording, for playback, for Internet sound-work, and MIDI control. It is a full-duplex board, capable of recording sound at the same time that it plays it back. It can thus be used for Internet sending and receiving at the same time. If you did not have full-duplex, your Internet conversations would revive the old custom of saying "over" to let the other person speak. With full-duplex, you can both talk at once. If you are using full-duplex, there are some limitations on multiple sound playbacks and adding special effects, but it is easy to set and reset the board from full- to half-duplex using the Windows device manager.

The AWE64 Gold has 16-bit sound and is capable of sampling at up to 44,000 cycles per second. That means that it gets an effective frequency top of 22,000 cycles per second. Your dog can hear above this, but most human ears don't even reach 16,000 cycles per second.

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Small Office/Home Office *continued...*

A microphone is included. It has a desk stand—nice touch—and seems to be most responsive in the voice range. You can also plug your own microphone into the microphone-level jack. You can then record sounds through the board and store the result as a .wav file. The board has an E-mu 8000 Processor that you can use for wave-table synthesis, as well as recording your own sounds. Wave-table synthesis allows you to turn sampled audio into sounds for a musical instrument—you can attach cat-meows to a keyboard, for instance—and modify them in various ways before making them parts of more complex compositions. In the case of the AWE64, you can have up to 64-voice polyphony and over 100 instruments. Because of the 4MB of memory that are already on board (expandable to 28MB), you can create "Sound Fonts" from samples and store them for use in the future.

The board has a 20-bit SP/DIF interface you can connect to Digital Audio Tape (DAT) systems. You can therefore work at very high digital levels of fidelity, and avoid the buzzes, chirps and tweets that so often go with low-cost computer sound boards.

Okay, so it's a good board. But software makes it usable. As much of the software written for the Wintel world already follows the SoundBlaster standard, there is a plethora of programs available that will use the board. A number are included with the product itself, such a number that I changed my mind about the cost of the board. It's not expensive at $200; with the bundled software, it's cheap.

For instance, there is a wave-file editor called Creative WaveStudio. It allows you to record and save .wav files, and it lets you edit them as well. As I write this, it is the 25th anniversary of the beginning of Watergate. I fired up the sound editing software and recorded the words, "I am not a crook." With the included editing tools I deleted the word "not." Ah, science. Think how much smoother life would have been for the ex-president if he had had SoundBlaster technology to remove those missing 18 minutes from the Watergate tapes.

If you are not into revising history, you could use this convenient editor to record annotations for business documents. The board comes with Creative SoundOle software, which will help you to embed sounds in other documents.

TextAssist is text-reading software. If you select a piece of text in any program, and click the "go" button on the tiny floating TextAssist palette, the program will read to you what you have selected. TextAssist is invaluable for proof-reading. After you enter a column of figures into Excel, for instance, you can have TextAssist read them back to you while you check them off on the original list. Anyone who writes can profit from having TextAssist read their document back to them. Even though the voice sounds like Commander Data with a hangover, it gives a sense of how your words flow. TextAssist's value would increase if it could read the contents of dialogue boxes and the choices they offer.

Several of the bundled programs are of the sort that are found in many places these days.

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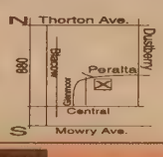

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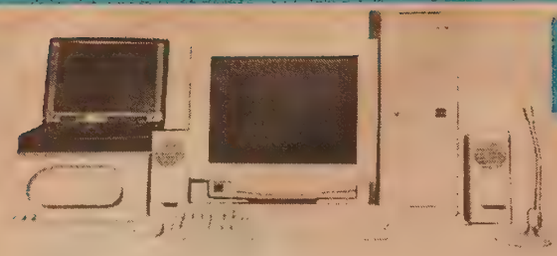

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- 24X CD-ROM
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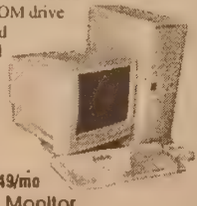

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VoiceAssist is a simple program to allow voice control of some Windows Programs. Real Audio Player lets you get real-time sound—"streaming audio"—from the Internet. WebPhone lets you use the Internet as a telephone system.

Also included are Vienna Sound Font Studio and MIDI Orchestrator Plus for working with music on your computer. I asked Suvid Tubtimcharoon, who uses MIDI software from time to time, to explain what Creative Labs has done with their MIDI programs. "Well," he replied, "they have provided mixed-quality software for MIDI. The MIDI composition software in particular could be greatly improved. That is a shame, because the board and sound synthesis is excellent." He then showed me the difference among the three kinds of synthesized sound available on the AWE64 Gold. One was entirely generated by the synthesizer, and had a tinny and electronic sound. A second was made using "wave-table" samples as the base for the sound: the result was considerably more natural, like a good analog recording. The third is "Physical Modeling WaveGuide Technology," which gave a bright sound like modern digital recordings.

Suvid's judgment in short: Excellent hardware technology, but not quite the best software for music work. He notes that adding more RAM to the board will improve sound quality, and adding RAM to the system will prevent audio jumps when switching between applications. He recommends having at least 16MB of RAM to use the music software under Windows 95.

The SoundBlaster AWE64 Gold sound card provides absolutely first-quality hardware and a large number of adequate-to-quite-good programs to use with it. At $200 for the whole collection it is an excellent value.

So why would you buy a 56K modem at this point?

Because if you need a modem, you want one that will still be useful in a year or two. That means buying the arriving technology, not the departing one.

The Speedy Robot Messenger

The U.S. Robotics 56K Sportster Modems are entrants in the race for faster communication over ordinary telephone lines.

There is a game that illustrates the problem all modems face. Many people get in a long line. Someone whispers a sentence to the first one, who then turns and quickly says it to the second. It is passed down the line, and of course what comes out at the far end is only dimly related to what started. This is the game of "Gossip," and it shows how hard it is to pass a message through channels without loss. The signal loss happens no matter what language is used—I have seen Gossip played in American Sign Language—and it is caused by the many transitions the message must go through. The faster the handoff from player to player, the greater the chance of error.

Modems must convert digital signals to analog sounds that will travel through the telephone. Their name comes from the phrase "Modulate-demodulate," referring to this translation job. In order to get more and more data through a telephone system that was intended to

continued on page 86

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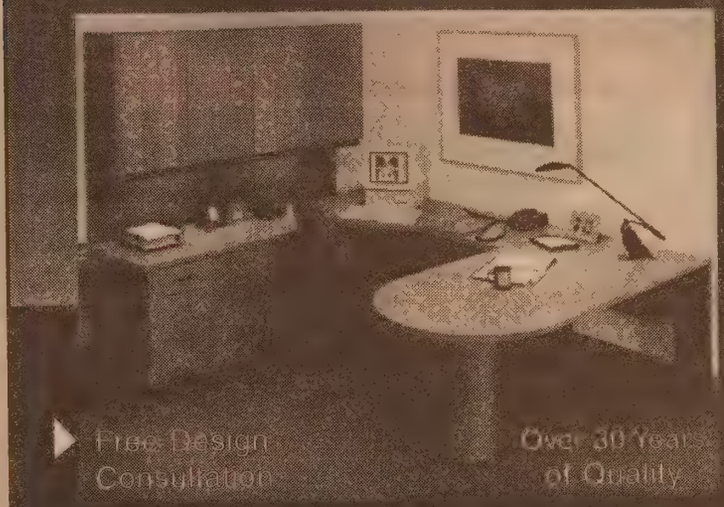

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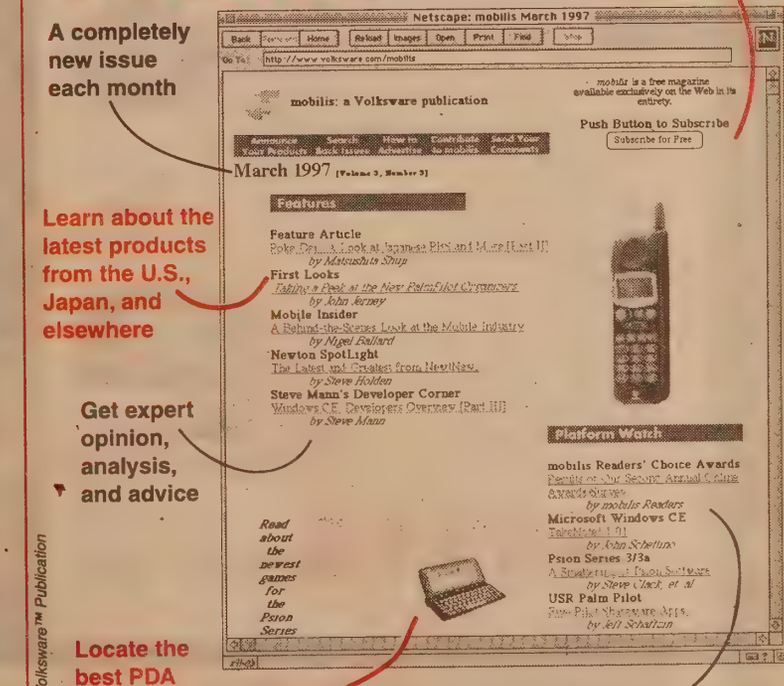
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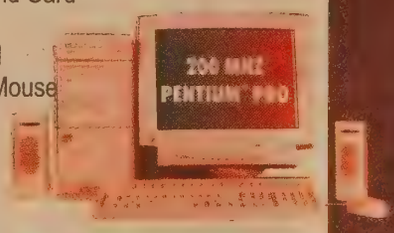

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- Maxi-Switch 104 Keyboard
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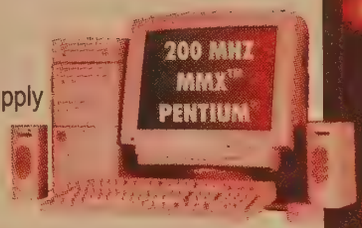
- Minitower Case with power Supply
- Microsoft Windows 95



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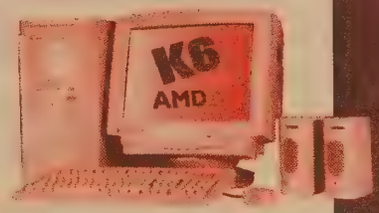

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- 1.44 MB Floppy Drive
- 12 X EIDE CD ROM
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- 60W Amplified Speakers
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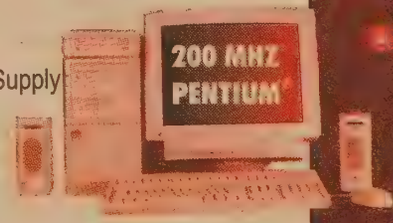

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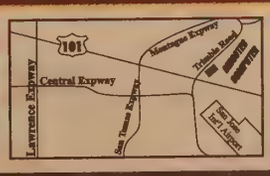

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Small Office/Home Office *continued from page 83*

carry only voices, modems must create and understand ever-more subtle shifts in tonality. Somewhere there is a limit, but modem manufacturers have been forcing it back.

The current standard is 28,000-33,000 bits per second. The next goal is to make communication possible at 56,000 bits per second. In order to make this jump of 70-100% in speed, the new modems have to remove some of the players from the Gossip game. They do it by reaching through the telephone and grabbing the lapels of the telephone company's own switching system. They basically say, "Hey, I'm digital and you're digital. Can't we just ignore these analog players and talk digital to digital?" If Telco's system says "yes," the modem can jump ahead in speed.

Will you actually get this increase in speed? Probably not yet. There are many telephone systems in which you cannot get access to these switches. There are many Internet Service Providers that have not yet installed 56Kbps modems. Some noisy lines just will not support the traffic. And there are two competing methods of doing the 56K trick, with the standard not yet settled.

So why would you buy a 56K modem at this point? Because if you need a modem, you want one that will still be useful in a year or two. That means buying the arriving technology, not the departing one. More and more ISP's are installing 56K servers. Negotiations are going on at the International Telecommunications Union to set a standard for 56K modems, and the talks should be completed by 1998.

U.S. Robotics has been in the modem business since 1976. Their "x2" technology is one of the two modalities competing to be the new 56Kbps standard. They have promised a free update to the ITU standard for all purchasers when it is finalized—even if the ITU does not decide on the U.S. Robotics entrant. In the meantime, over 300 ISP's, including America Online, are offering support for USR x2 connections.

An additional blessing is that the USR Sportster really does install easily. Much Plug and Play hardware is "Plug and Pray," but the Sportster went in with very little fuss. I did need to tell my dialup connection that my new modem was at Com 2, rather than Com 4. Then it worked.

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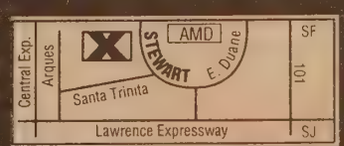

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Internet Commerce Eludes The Tax Man

But Feds Are Catching Up

Electronic commerce, particularly on the Internet, has effectively eliminated national borders for doing business. Never mind about bringing a small world closer together and providing customers worldwide with more variety and choice—it's also created IRS audit problems and has complicated tax administration.

Uncle Sam is developing new tax policies and rules to address Internet and other forms of electronic commerce. But until new tax law changes take effect, Internet vendors will be subject to quixotic taxation.

Cyber Cheaters

A major issue raised by Internet commerce is identifying the country or countries having jurisdiction to tax the resulting income.

Electronic vendors could reside anywhere in the world. Customers often don't know or care where the seller physically sits. Indeed, an important benefit of the Internet is that it gives any size business the potential to reach customers all over the globe.

The IRS, however, is getting all riled up over enforcement problems posed by virtual mobility. Untraceable use of an Internet site, with permission of the site's controllers, is quite easy to arrange. For example, a person living in Australia and running a commercial Web site for US customers using a computer located in Canada can control the Canadian computer from Australia through a configuration leaving no audit trail. And, if it looks like the jig is up, operations can be shifted to somewhere else in cyberspace.

An article in the September 1996 issue of *Wired* notes that companies doing business over the Internet "can call any place home, and the savvy ones are choosing jurisdictions with low or no taxes, good financial privacy, governmental stability, and decent communications systems. (Warm water and sandy beaches are also a plus.)"

Some Web sites now offer offshore incorporation and banking services. Although individuals and companies have always been able to create offshore corporations and open offshore bank accounts, it can now be done quickly, easily, and economically—without leaving your mousepad.

A major issue raised by Internet commerce is identifying the country or countries **having jurisdiction** to tax the resulting income.

Readers are cautioned, of course, that Lee Iacocca wannabes may be running afoul of US tax laws and run the risk of serious penalties. There are also other legal implications, which are beyond the scope of this article.

Much to the government's chagrin, it may currently be difficult even to verify the identity of non-compliant US taxpayers to whom income from Internet sales accrues abroad. And if the taxpayer can be identified, according to the IRS, it may be difficult to establish the amount of such income. As a result of these practices and the abuse potential, anticipate substantial revisions in rules that govern controlled foreign entities. A crackdown on cybertax cheaters probably isn't that far off—forewarned is forearmed.

The Department of Treasury has identified four broad categories of technology issues in the area of tax administration and compliance of Internet transactions. This is where the action will be. The four categories deal with electronic money, identity verification, record keeping, and information reporting.

E-Cash

Electronic money poses a tax-evasion potential similar to that created by cash to the extent that it results in an extensive payment system outside of normal banking channels. Cybervendors presently choose between "accounted systems" or "unaccounted systems." In accounted systems, the institution where the funds originate maintains a central transactions record. In an unaccounted system, no such record exists.

A well-known example of an accounted system is the credit card model, such as MasterCard or Visa. These systems provide an advantage for honest taxpayers, since the central records could be used to verify transactions during an IRS audit.

Big changes will be coming, however, in the area of unaccounted-for electronic money. Unaccounted e-money passes from computer to computer without an audit trail after the initial transaction. Consider a BART ticket. After the initial purchase, which might be charged to your bank account, you can hand that ticket to your cousin without a transaction record.

Just as cash or a BART ticket may pass from hand to hand, unaccounted-for e-money moves through the economy anonymously. Under one

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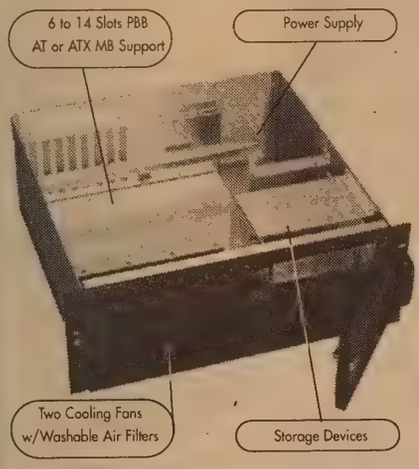

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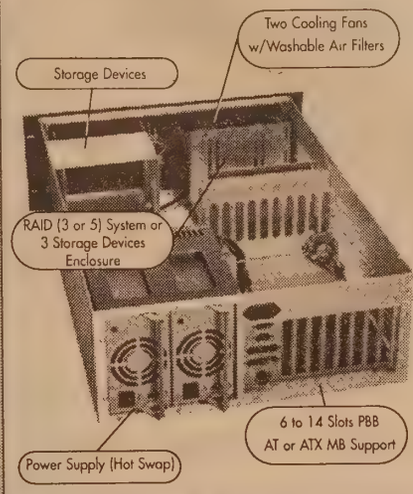

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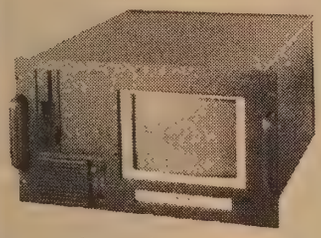

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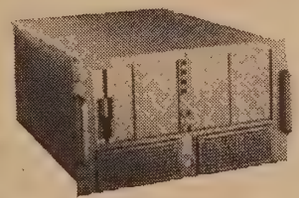

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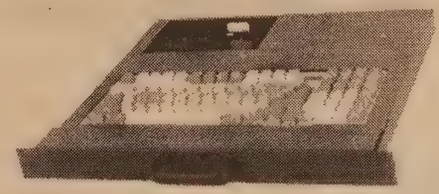

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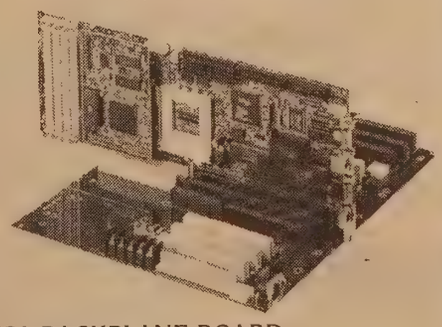

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system, a central computer verifies that the e-money is authentic, but no other records are maintained. This differs from a credit card transaction in that instead of moving money and therefore making a record, only a verification is made and no record is available of the party requesting verification.

Unaccounted e-money has especially high tax-abuse potential when used to pay for things that can be downloaded, such as software. Historically, the IRS has examined "all cash" businesses through the flow of inventory and similar physical flows that indicate the magnitude of a taxpayer's business. For example, if a software company sells shrink-wrapped computer software, the volume of packaging materials could be used to approximate gross sales. If they sell the same software by downloading it over the Internet, no such guidepost exists.

If, additionally, the money is parked overseas, enforcement difficulties can be daunting. For this reason, the IRS looks suspiciously at Web sites accepting unaccounted-for e-money.

On the other hand, there are legitimate benefits of unaccounted e-money. Some customers may not feel comfortable identifying themselves with accounted electronic money for transactions which they can currently conduct anonymously with cash. Another persistent concern is privacy for customers wanting to stay off junk mail lists, or who are concerned their credit card numbers will be used illegitimately. In addition, an accounted system may impose administrative and other costs on cybervendors that would be passed on to consumers, thus making their wares less competitive.

A simple way to ensure that reliable books are kept, even with unaccounted systems, is by having the e-money received and accounted for by a third party that acts like a bank. This is called a notational electronic money system. The third party serves as an offsite control point, verifying and authorizing transactions. Use of a reliable third party should be good enough for government work.

Readers wanting more information on e-money are referred to Resources, in the box at the end of this article.

The Rise Of Residence-Based Taxation

A constant tension in the tax laws is whether taxes should be imposed in the jurisdiction where the business activity takes place, or where the seller resides. Under a typical tax treaty, if you set up a so-called "permanent establishment" in a foreign state, you will come under that country's tax jurisdiction. A permanent establishment is simply a fixed place through which the business of an enterprise is wholly or partly carried on. Naturally, you would want to set up your permanent establishment in a country with lower tax rates than the US.

Can Internet vendors have a permanent establishment in Barbados without leaving their desktop in Berkeley? Many tax advisors are

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M-120T	Pentium™/120	16MB	1.0GB+4X	11.8" SVGA TFT	$2948.
M-133T	Pentium™/133	16MB	1.0GB+6X	11.8" SVGA TFT	$3448.
E-133T	Pentium™/133	16MB	810MB	11.3" SVGA TFT	$2548.

TECRA 740CDT $6???

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Model	Processor	Ram	HD	Screen	Price
ThinkPad 760XD	MMX/166	32MB	3.0GB	12.1 Active	IN Stock
ThinkPad 760XI	MMX166	16MB	2.1GB	12.1 Active	$4???.
ThinkPad 760XL	MMX/166	32MB	2.1GB	12.1 Active	Call
ThinkPad 760E	Pent-™/150	16MB	2.1GB	12.1 Active	$3998.
ThinkPad 760ED	Pent-™/133	16MB	2.1GB	12.1 Active	$4298.
ThinkPad 560	MMX166	8MB	2.1GB	12.1 Active	$4198.
ThinkPad 560	Pent-™/133	8MB	2.1GB	12.1 Active	$3898.
ThinkPad 365XD	Pent-™/120	8MB	1.08GB+6X	10.4" SVGA TFT	$1678.
ThinkPad 365XD	Pent-™/133	8MB	1.35GB+6X	11.3" SVGA TFT	$2598.
ThinkPad 380	Pent-™/150	16MB	1.08GB	12.1 Dual Scan	$2148
ThinkPad 380	Pent-™/150	16MB	1.35GB+8X	12.1 Dual Scan	$2438
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430CDS	Pentium™/120	16MB	1.2GB+10X	11.3" Dual Scan	$1658.
430CDT	Pentium™/120	16MB	1.2GB+10X	11.3" Active Clr.	$2238.
440CDX	P133-MMX	16MB	1.34GB+10X	12.1" Fast Scan	$2438.
440CDT	P133-MMX	16MB	1.34GB+10X	12.1" Active Clr.	$3318.
460CDT	P166-MMX	32MB	2.02GB+10X	12.1" Active Clr.	$4188.
3600CT*	486 DX2-50	8MB	250MB	8.4" Active Clr.	$1038.
3600CT*	486 DX2-50	8MB	500MB	8.4" Active Clr.	$1096.
650CT*	Pentium™/133	16MB	1.2GB	11.3" Active Clr.	$3038.
660CDT*	Pentium™/150	16MB	1.35GB+10X	11.3" Active Clr.	$4376.
300CT	P133-MMX	32MB	1.51GB	10.4" Active Clr.	$3298.
500CS	Pentium™/120	16MB	1.2GB+6X	12.1" Dual Scan	$1788.
500CDT	Pentium™/120	16MB	1.2GB+6X	12.1" Active Clr.	$2918.
510CDT	Pentium™/133	16MB	2.1GB+10X	12.1" Active Clr.	$3398.
520CDT	P166-MMX	32MB	2.02GB+10X	12.1" Active Clr.	$4578.
530CDT	P166-MMX	32MB	2.02GB+10X	12.1" Active Clr.	$4968.
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740CDT	P166-MMX	16MB	2.1GB+10X	13.3" Active Clr.	$5738.

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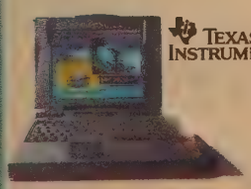

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Extensa 650CDT	Pent-™/133	16MB	2.1GB	11.3" SVGA Active Clr	$2798.
Extensa 660CD	MMX/166	16MB	1.35GB	12.1" SVGA DSTN	$2728.
Extensa 660CDT	MMX/166	16MB	2.1GB	11.3" SVGA Active Clr	$3208.
Extensa 900	Pent-™/133	16MB	1.35GB	12.1" SVGA DSTN	$2158.
Extensa 900T	Pent-™/133	16MB	1.35GB	11.3" SVGA Active Clr	$2528.
Extensa 900CDT	Pent-™/133	16MB	1.35GB	11.3" SVGA Active Clr	$2908.
TM-6020	Pent-™/120	8MB	1.08GB	11.3" SVGA Active Clr	$2048.
TM-6030	Pent-™/133	16MB	1.35GB	12.1" SVGA Active Clr	$2328.
TM-6050	Pent-™/150	16MB	1.35GB	12.1" SVGA Active Clr	$3078.
TM-6160	MMX/166	32/96MB	2.1GB	12.1" SVGA Active Clr	$4658.

Model	Processor	Ram	HD	Screen	Price
OmniBook 800CT	Pent-™/133	16MB	1.4GB	10.4" SVGA TFT	$3078.
OmniBook 800CT	Pent-™/166	16MB	2.1GB	10.4" SVGA TFT	$4348.
OmniBook 5700CT	MMX/150	16MB	2.0GB	12.1" SVGA TFT	$4368.
OmniBook 5700CT	MMX/166	16MB	2.0GB	12.1" SVGA TFT	$4618
OmniBook 5700CTX	MMX/166	32MB	3.0GB	12.1" XGA TFT	$5598
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Versa 6050MH	Pent-™/150MMX	16MB	2.1GB+10X	12.1" SVGA TFT	$3722.
Versa 6050MX	Pent-™/150MMX	16MB	2.1GB+10X	12.1" XGA TFT	$4094.
Versa 6050NT	Pent-™/150MMX	16MB	2.1GB+10X	12.1" XGA TFT	$4281.
Versa 6200MX	Pent-™/166MMX	32MB	2.1GB+10X	13.3" XGA TFT	$5285
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Versa 2630CD	Pent-™/133	16MB	1.44GB+10X	12.1" SVGATFT	$1864.
Versa 2650CD	Pent-™/150MMX	16MB	1.44GB+10X	12.1" SVGA DSTN	$2331.
Versa 2650CDT	Pent-™/150MMX	16MB	1.44GB+10X	12..1" SVGA TFT	$3265.
Versa 2530	Pent-™/133	16MB	1.08GB	12.1" SVGA DSTN	$1612.
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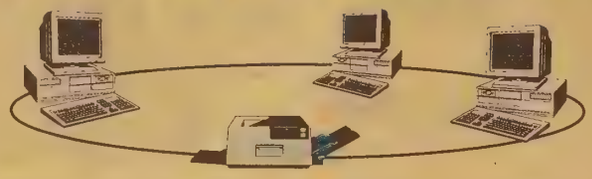

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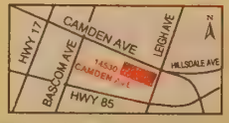

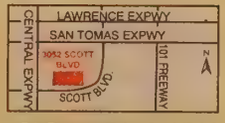

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attempting to justify that feat. Some commentators argue that an Internet server situated abroad can be a permanent establishment.

The concept of a permanent establishment was developed in the context of conventional types of commerce that are generally conducted through identifiable physical locations. The rules permitting foreign sales to be conducted from tax-haven countries were written not only to encourage foreign sales, but to recognize the fact that it is more expensive to transport goods and do business abroad than locally.

Business over the Internet, however, may be conducted without regard to national boundaries and may dissolve the link between an income-producing activity and a specific location. Indeed, it might be said that electronic commerce doesn't seem to occur in any physical location but instead takes place in the nebulous zone of cyberspace.

Can Internet vendors have a permanent establishment in Barbados WITHOUT leaving their desktop in Berkeley?

Many tax advisors are attempting to justify that feat. Some commentators argue that an Internet server situated abroad can be a permanent establishment.

Although US tax law remains unsettled in this regard, the US Office of Tax Policy suggests that Uncle Sam should be reluctant to grant the type of tax benefits to Internet vendors that were developed for conventional commerce. They argue that an Internet server or similar equipment may not be a sufficiently significant element in ordinary transactions to qualify as a permanent establishment.

The Office of Tax Policy further cautions, "If the existence of a US-based server is taken into account for this purpose, foreign persons will simply utilize servers located outside the US, since the server's location is irrelevant."

The good news is the possibility that a computer server may yet be accepted as a permanent establishment in a tax-haven country—there has been no final decision one way or the other. The inference is that taxpayers making this claim would not be deemed to be acting frivolously or unreasonably.

continued on page 96

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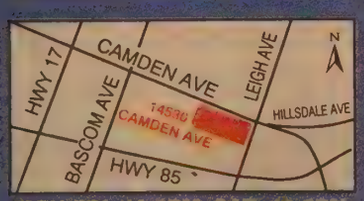

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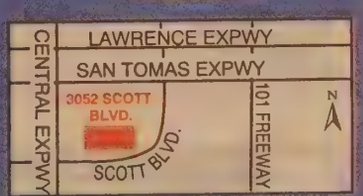

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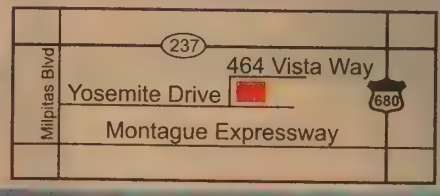

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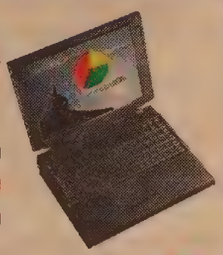

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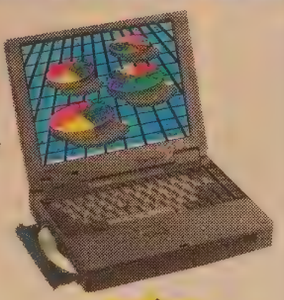

13.3" TFT

1.4GB 16MB	P133	P166	P166MMX	P200	P200MMX
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- 3D Stereo Sound Card
- One Pair of 60-Watt Stereo Speakers
- Windows 95 Release II w/CD & Manual

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P133	$729	P200	$899
P166	$769	P200MMX	$979

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- Mitsumi Windows 95 104-Key KB
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P100	$1069	P166MMX	$1209
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P166	$1119	P200MMX	$1329

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- U.S. Robotic 33.6K Internal Fax/Modem
- Panasonic 24X Speed CD ROM Drive
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- Windows 95 Release II w/CD & Manual
- Windows NT 4.0 Optional

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Accounting *continued from page 92*

Classifying Income

Uncle Sam continues to be perplexed over how to classify sales of digitized information, such as computer programs, books, music, or images.

Some Internet transactions may be viewed as the equivalent of the purchase of a physical copy of shrink-wrapped software, which would often not subject the exporter to US taxation. Other transactions would result in royalty income because they involve payments for the privilege of using copyrights or similar property in the US, which could be taxable here.

Digitized information also complicates existing difficulties in defining what is services income, as opposed to income from the sale of goods or from royalties. As a simple example, a programmer might sell the program—a product—or programming time—a service. Services income is often subject to harsh tax treatment, including higher tax rates, particularly in the case of certain types of incorporated service providers.

The Office of Tax Policy implicitly acknowledges the confused and unsettled state of things. "Technological developments have necessitated a reexamination of existing income classification principles. ... Classifying transactions involving digitized information may require a more complex analysis that disregards the form of the transaction ... in favor of analysis of the rights transferred."

Of course, savvy taxpayers will find ways to exploit uncertainty in the tax laws. One can often take an aggressive position and play the "audit-lottery" with little risk of penalties, merely by attaching a full disclosure (Form 8275) to the tax return.

The Resources box below provides recommended reading for cybervendors wishing to keep abreast as tax policies and systems of tax administration adopt to the Internet.

The important thing is to be aware that changes in taxation will come. And the more success that Internet entrepreneurs have at evading tax and audit controls now, the more severe may be the backlash from governments missing out on a piece of the action. ■

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A free copy of *Selected Tax Policy Implications of Global Electronic Commerce*, issued by the Department of Treasury Office of Tax Policy, (Nov. '96), is available from David Simon's office at (510)893-5753.

RESOURCES:

An Introduction to Electronic Money Issues
Sept. 19, 1996
Comptroller of the Currency
Communications Division
Washington, D.C. 20219

Exploring the World of Cyberpayments: An Introductory Survey
Sept. 27, 1995
Financial Crimes Enforcement Network
Department of Treasury
2070 Chain Bridge Rd.
Vienna, VA 22182

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4120 - 5/120, 16MB, 1GB HD, DS	$1,374
4130 - 5/133, 16MB, 1.08GB, TFT	$2,857

TOSHIBA

430CD-5/133,16MB, 1.3GB HD, 10x, TFT	$2,395
500CS-5/120, 16MB, 1.2GB HD, 28.8, DS	$1,889
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660CDT 5/150, 16MB, 1.35GB HD, 10x, TFT	$4,376
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5M, 12ppm, 600dpi, PostScript, NIC	$1,569
5Si, 24ppm, 40Mhz Risc, 600dpi	$2,428
5SiNx, 24ppm, 40Mhz Risc, NIC	$2,748
5SiMx, 24ppm, 600dpi, PostScrip, NIC	$3,495
Color 5, 10/3ppm black/color, 1200dpi	$3,915
Color 5M, 10/3ppm, 1200dpi, post, NIC	$4,924
4V, 16ppm, 600dpi	$1,349

Printers include 6 foot bi-directional printer cable

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PC World, January 1997

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▶ **Server with 128MB memory $5250**

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50 user	$3,071
MS NT 4.0 w/5 user	$690
MS NT 4.0 workstation	$190
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8 port 100BT Hub	$395
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3Com PCI 100BT Ethernet	$76
Intel PCI 100BT Ethernet	$76
HP JetDirect EX Plus	$289
Ascend Pipeline 50	$695
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BY ROYAL P. FARROS

The Making Of An Internet Startup: Part X

The State Of The iPrint Shop

Last month we discussed the State of the Internet. This month we're going to get personal: The State of the iPrint Shop.

I thought it might be more interesting to start with the things that people *don't like*. I'm extremely happy to report that dislikes are few, but the lessons from these have been great.

Did I Order?

Our oddest problem has to do with customers who create a business card or label, then *assume* that the order has been placed *without* actually putting the item in the shopping cart and/or hitting the checkout button.

It would be easy to write off these customers as being stupid, but they're not. The problem here is obvious: Not everyone gets the shopping cart metaphor in the online world.

The solution is less obvious. Shopping carts and checkout counters are physical necessities in the real world. And while the virtual equivalents are commonplace in e-commerce, e-commerce isn't commonplace yet. Not everyone has problems with this, but for a minority of customers—enough to warrant concern—the shopping cart concept just doesn't translate into the virtual space.

For a minority of customers—enough to warrant concern—**the shopping cart concept just doesn't translate into the virtual space.**

We've wrestled with alternatives since the early '90s when we did our first e-commerce kiosk. I wish I could say we found "the answer," but the truth is we only continue to minimize the problem. We continue to move in the right direction, but the journey is a lot longer than any of us cares to admit.

Almost Common Denominator

We pride ourselves on working with every environment and every Internet platform. Only one exception to this: Uploading graphics. To do this, iPrint has to support the advanced HTML 3.1 that includes the uploading extensions. And while iPrint wants to be a common denominator environment, we know people want their logo on their business cards even more, and supporting this advanced HTML feature is the only way to make this possible.

Netscape supports HTML 3.1. Microsoft doesn't. And our Microsoft customers let us know loud and clear that they want this, too.

Out Of Our Control

Welcome to the Internet, where a zillion people are all joined together through a web of intricate and sometimes finicky connections. When something goes wrong or when things slow down, the Internet is the ultimate finger-pointing environment. (And I'm not going to say which finger people usually point!)

It's this environment of uncertainty that our customers hate most. Sometimes everything is cruisin' along. Sometimes you're dead in the water. Who the hell's fault is it?

It used to be so easy. The answer to every even slightly weird technical support situation was, "It's Microsoft's fault." But now with the Internet, we've got even more fingers to point: Incompatible browsers, network traffic, giant GIFs, pesky firewalls, gratuitous Java, and so on. But iPrint's worst "out of our control" problem: AOL and its Internet proxies.

AOL is such a wonderful, "push one button and you're online" service. But anyone trying to use AOL as a front for the Internet is in for a disaster. The iPrint site runs two or three times *slower* through AOL than through a regular ISP. And that's when the service is running: A customer actually blamed *us* for not being able to log on to AOL.

We're not alone in this... AOL is making everyone look bad.

Who knows, as the provider of the largest private online community, maybe AOL is doing this *on purpose* to discourage Internet usage? Kind of the modern-day equivalent of the auto companies "burying" the carburetor that gets 200 miles to the gallon?

Speaking of speed, you'll hear this phrase a lot: "And we're one of the better sites." Make sure this is true for your site. At iPrint we've worked very hard to minimize the size of our graphics and the number of downloads. This is really the most important usability lesson regardless of whether AOL is involved or not.

Customer Service Is Numero Uno

What customers like *best* about iPrint is our customer service. This shouldn't be a revelation, but a confirmation of what everyone's been hearing for some time now: In a faceless shopping environment, it's so very important to be extra responsive.

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- 12X CD-ROM
- 180 Watt Stereo Speakers
- 33.6 Fax/Voice Modem
- PC Radio Card w/ FM Tuner
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- 12X CD-ROM
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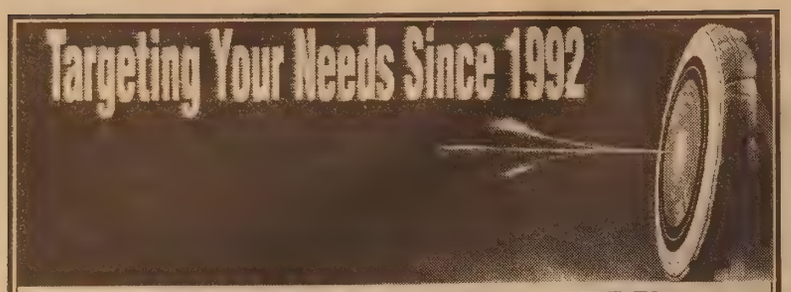

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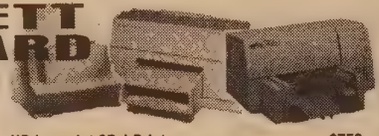

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The Making Of An Internet Startup *continued...*

Fun Isn't Far Behind

Overwhelmingly, people say that creating a business card or label at iPrint is "fun." I hate using the word, but it's true for iPrint: When you "empower" someone, they really enjoy the experience.

A word of caution about "Fun": The kind of fun that customers enjoy comes from an interactive process that does *more* than they expect. Simply throwing a funny cartoon on your homepage that might take a long time to download doesn't fit the bill.

Yes, We Have No Bananas

Or Java, or Shockwave, or other large, slow, and superficially distracting effects. Customers seem to like the fact that iPrint is crisp in operation and always "behaves" itself.

We don't have a big sticker price, either. By design, we're a big discount under all of the traditional sources of commercial printing. While price doesn't seem to be tremendously compelling to our customers, everybody feels better paying less... as long as they're getting "more" than they would have from competitive services.

Who's Surprised?

I always get a kick out of customers who aren't just happy but *surprised* that their order arrived on time, and that the quality surpassed their expectations. I think this, more than anything, really points out that we're in the "renegade" and "early adopter" phase of the sales curve. It's almost as if these customers are saying, "OK, I'm cutting-edge, and I know your service is new, which means I know there's going to be all kinds of problems. I'm prepared for abuse."

We should all enjoy these patient, early-buying customers while we can: The Kmart, "blue-light special" shoppers are just around the corner.

The State Of The iPrint Shop

Those of you who have been reading this series know that any startup has its bad days, iPrint included. How do we know we're not just treading water but growing a business?

The old-fashioned way: Through our customers. Customers are visiting us in record numbers every week. Customers email us lots of nice notes. And, most importantly, customers entrust us with their printing business.

There are other signs, too. We're knocking out partnerships faster than Tyson is biting Holyfield. Netscape, CUC International, Prodigy, CompuServe, Four11, ISN, and so on. An enormously important relationship just got the verbal "go ahead" last week (one of the two "big deals" that I mentioned a few issues back): iPrint will create and host the online custom print shop for the largest chain of quick printers in the world.

It's a nice feeling to know that that giant, heavy rock we've been pushing for so long is starting to pick up some momentum. ■

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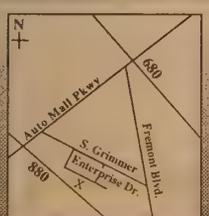

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- 4.3Gb Ultra IDE Hard Drive
- Built-In EIDE & High Speed I/O; 2S, 1P
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- Iiyama 8617e (17" 1600x1280@69Hz 0.26dp)
- Diamond 3D 3000 4Mb VRAM
- Panasonic 24X EIDE CD ROM Drive
- Built-in Sound Card (Yamaha Chipset)
- Yamaha M15 Speakers
- Microsoft Natural Keyboard
- Logitech Mouseman Mouse & Mouse Pad
- CD: Microsoft Windows 95

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- Matrox Millennium-II 4MB WRAM
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- ATX2 MID Tower Case, 250 Watts P.S.
- SONY 200SX (17" 1280x1024@60Hz 0.25dpi)
- Matrox Millennium 4Mb WRAM
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- *Decision Maker 101*
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Interactive TV: Real At Last?

OpenTV Leads The Pack With The First Real Mass-Market Application—But There's A Long Way To Go

A FUNNY THING HAPPENED ON THE WAY to the Information Superhighway.

Just a few years ago, with Convergence as the rallying cry, there was a general stampede of cable companies, satellite providers, telcos, content providers, consumer electronics giants and computer vendors to form alliances. Untold riches ostensibly awaited purveyors of Content to the allegedly insatiable masses via some state-of-the-art computer-TV hybrid, and business models from the prosaic to the fanciful (distance learning, emergency services, videoconferencing, movies on demand, real-time virtual reality, online gaming, sitcoms with point-and-click product placement, etc.) were touted as foolproof and the Next Big Thing.

Millions of dollars and some interesting experiments later, just about all of this has failed to transpire. Despite limited field trials from Cerritos to Orlando, nobody in the US is currently deploying any such services to anything resembling a mass audience.

Indeed, one could reasonably consign the whole interactive TV genre to the Museum of Technological Snake Oil, were it not for a lone but promising counterexample—France's Television par Satellite (TPS). For most of this year, TPS has been rolling out 30,000 settop boxes a month to paying customers (at between $18–30 per month), and is rapidly approaching 200,000 subscribers.

A joint venture of six companies including France Telecom (which years ago substituted Minitel terminals for phone directories and launched an online business revolution) and France Television, TPS is based on a technology standard called OpenTV (*http://www.opentv.com*). OpenTV, as the name suggests, is an open development platform for all the necessary components to provide a wide range of interactive services via digital television—content authoring, media servers, settop boxes and beyond.

OpenTV is developed and marketed by Thomson Sun Interactive, a company formed by the alliance of Sun Microsystems with Thomson multimedia, a Paris-based world leader in consumer electronics, best known in the US for the RCA, GE, and ProScan brands. Since its launch in 1994, Thomson Sun Interactive has participated fully in the roller-coaster fortunes of interactive TV, and its future is by no means assured—but the mere existence of a successful model using its technology sets it apart from its competitors.

One thriving venture does not an industry make, but when you're in a business that doesn't quite exist yet, it certainly helps. With that in mind, we paid a visit to OpenTV's Palo Alto headquarters to discuss the rewards and terrors of its business with CEO Elliot Broadwin, a longtime veteran of the consumer electronics market, and newly arrived worldwide marketing VP Mitchell Berman, who comes to OpenTV after an extensive career in the cable industry.

* * * * *

So how did Thomson Sun Interactive come into being, and what was its mission at the time?

Elliot Broadwin: In 1994, you'll remember, you couldn't open the *Wall Street Journal* without seeing the alliance du jour. There were technology companies, content companies, cable companies, telephone companies—there was an announcement every single day. There's all this talk about how the world is converging, how the computer side of the business and the consumer electronics side of the business are on a collision course.

Sun, with its computing background, and Thomson, from its consumer electronics background, really didn't want to be left out of the game, and really wanted to have a position in what was happening.

The original conversation was, "How can we merge Sun computing technology at the back end and use it to deliver information, video-

continued on page 108

By Mary Eisenhart • Photos: Anne Knudsen

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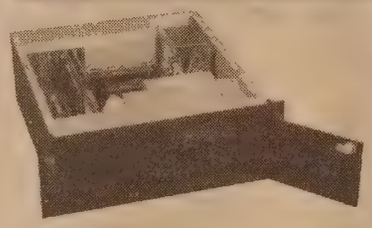
ATX RACKMOUNT SYSTEM



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- RC4107ATX-B4, 7-Slot Industrial Rackmount Enclosure
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- Black Epoxy Powder-Coated Exterior Paint Finish
- Three 5.25" Horizontal Front Accessible Drive Bays & One 3.5" Vertical Front Accessible Drive Bay
- Pentium II PCI Mainboard, Intel or Compatible
- Intel Pentium II-266MHz CPU with CPU Cooling Fan
- 64MB EDO Memory
- Teac 1.44MB (3.5") Floppy Disk Drive, Black Face
- Western Digital 2.1GB IDE Hard Disk
- Toshiba 12X IDE CD-ROM Drive, Black Face
- 4MB Matrox Millennium VGA Card
- Kensington "Expert" Trackball
- Windows NT 4.0 Workstation
- 300W ATX Power Supply
- Viewsonic 17" SVGA Monitor
- Keytronic 104 PS/2 Enhanced Keyboard
- (Rackmount Keyboard & Monitor Enclosure Also Available)

QUAD PENTIUM-PRO RACKMOUNT SYSTEM

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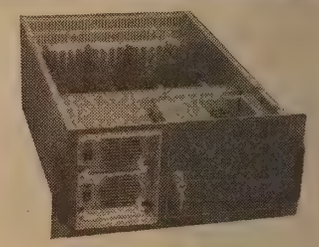

- RC4114Q, 14-Slot Industrial Rackmount Enclosure
- (8.75"H X 19" W X 26" D)
- Black Epoxy Powder-Coated Exterior Paint Finish
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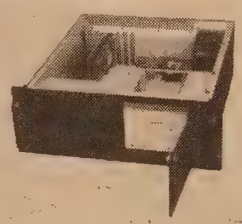
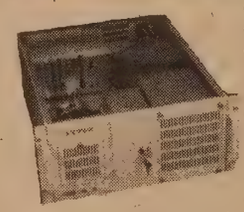
- 4MB Matrox Millennium VGA Card
- Kensington "Expert" Trackball
- Winoows NT 4.0 Workstation
- 600W Power Supply
- Viewsonic 17" SVGA Monitor
- Keytronic 104 PS/2 Enhanced Keyboard
- (Rackmount Keyboard & Moniter Enclosure Also Available)

RC4107ATX



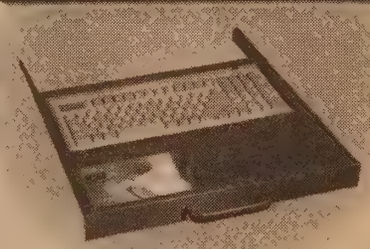
- 7-Slot Industrial Rackmount Enclosure
- Intel ATX Form Factor
- (7" H x 19" W x 18.5" D)
- Black Epoxy Power-Coated Exterior Paint Finish
- Three 5.25" Horizontal Front Accessible Drive Bays and Two 3.5" Vertical Internal Drive Bays
- Locking, Dust-Proof Front Door with Black Keylock
- Low Noise, High MTBF Cooling Fans
- Intel ATX or Compatible Motherboard Mountable on Fixed Standoffs
- (Intel I/O Shields & ATX Power Supplies Also Available)

RC5107HAX/RC5108AT

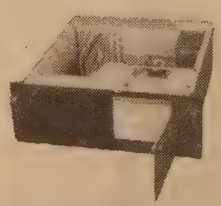


- 7 or 8-Slot Industrial Rackmount Enclosure
- (8.75"H x 19"W x 20"D)
- White High-Baked Water Exterior Paint Finish (Also Available in Black Epoxy Powder-Coated Exterior Paint Finish)
- One 5.25" Vertical Front Accessible Drive Bay, One 3.5" Vertical Front Accessible Drive Bay, Three 3.5" Vertical Internal Drive Bays
- Locking, Dust-Proof Front Door With Silver Keylock
- Low Noise, High MTBF Hot-Swappable Cooling Fans
- Baby-AT or 8-Slot Passive Backplane Mountable (RC5108AT); Intel ATX or Compatible Motherboard Mountable (RC5107HAX) on Fixed Standoffs
- 300W Hot Swappable, Redundant Power Supplies (Front Accessible)

19" RACKMOUNT KEYBOARD WITH MOUSE HOLDER



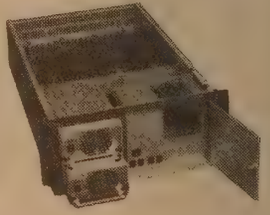
RC4108/RC4114



- 8 to 14-Slot Industrial Rackmount Enclosure
- (7"Height x 19"Width x 18.5" Depth)
- Black Epoxy Power-Coated Exterior Paint Finish
- Three 5.25" Horizontal Front Accessible Drive Bays and One 3.5" Vertical Internal Drive Bay
- Locking, Dust-Proof Front Door with Black Keylock
- Low Noise, High MTBF Cooling Fans
- Baby-AT or Full-Size Motherboard or S-Slot Passive Backplane Mountable (RC4108); 14-Slot Passive Backplane Mountable (RC4114) on Fixed Standoffs
- (AT & PS/2 Style Power Supplies Also Available)

RC5120QS

- 20-Slot Industrial Rackmount Enclosure
- (8.75"Height x 19"Width x 26"Depth)
- Black Epoxy Powder-Coated Exterior Paint Finish
- Four 3.5" Horizontal Front Accessible Drive Bays and Two 3.5" Horizontal Internal Drive Bays, Two 3.5" Vertical Internal Drive Bays
- Locking, Dust-Proof Front Door With Black Keylock
- Low Noise, High MTBF Cooling Fans-Five 39CFM Fans in Center
- 20-Slot Passive or Segmented Backplane Mountable on Fixed standoffs
- 300W Hot Swappable, Redundant Power Supplies (Front Accessible)



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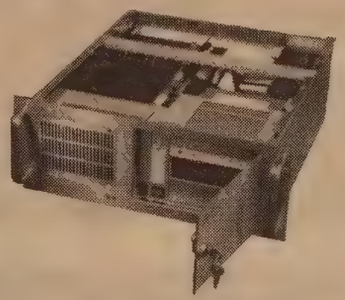
- Electro-galvanized Steel (Zinc Plated) Body with Stainless Steel Front Panel
- Three 5.25" Horizontal Front Accessible Drive Bays, One 3.5" Vertical Front Accessible Drive Bay
- Pentium 166MHz CPU Card (Intel Triton Chipset, 256K Pipeline Burst Carche)
- Pentium 166MHz CPU with CPU Cooling Fan
- 14-Slot PCI/ISA Passive Backplane
- 32MB EDO Memory
- Teac 1.44MB 3.5" Floppy Drive
- Western Digital 2.1GB SCSI Hard Drive
- Toshiba 12X SCSI CD-ROM
- Adaptec 2940 SCSI Controller
- Diamond Stealth 64bit 2MB VGA Card
- Microsoft Windows NT 4.0 Workstation
- 300W PS/2 Power Supply
- 19" Stainless Steel Rackmount Keyboard with MS Mouse
- Class 1 or 10 Cleanroom Applications



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- 36" Stainless Steel Industrial Rack Cabinet
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- Stainless Steel Construction
- 1U Height Stainless Steel Rackmount Keyboard
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- For Class 1 or 10 Cleanroom Applications
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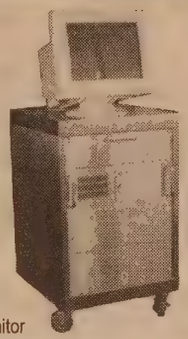

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- Intel® 82430 VX PCI Chipset
- Up to 128MB, EDO and ECC Support
- 128KB Award Flash BIOS
- On-Board C 4 T 65550 High Performance PCI Flat Pane/CRT Controller
- On-Board 1MB Video Dram, Expandable to 2MB

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- P6KFX-A, Single Pentium™ II 150 - 266MHz Mainboard
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- Up to 384MB Memory, EDO and ECC Support
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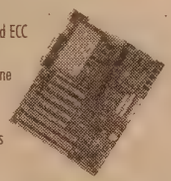

PCI/ISA DUAL PENTIUM PRO MAINBOARD (ECS)

- P6FX2-A, Dual Pentium Pro™ 150 - 200MHz Mainboard
- Intel® 82440FX Chipset
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- Up to 512MB Memory, EDO and ECC Support
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- Pentium Pro 200. 64MB memory upgradable to 256MB.
- 8 Gigabyte Wide SCSI drive.
- ECS motherboard P6F x 1-A inside.
- Novell Tented and Approved.

In addition to the above, the rack-mountable RMNT_FX1a system includes several state-of-the art features as well. If utilizes the intel 440FX* PCI set chipset as its core logic, a 1MB Award Flash BIOS with support for PnP 1.0A,APM 1.2, Multiboot and DMI, one EPP/ECP mode parallel port, two 16550 high speed serial I/O port, and built-in USB headers for future upgrades.

Chassis
- Rack Mount (ATX Platform)
- 16.813" x 18.88" x 6.75" (W xD x H)
- Five 3.5" drive bays (one exposed)
- One 5.25" drive bay (exposed)

Certifications
- FCC Class B for the system
- Novell 4.1, with approved options

Warranty
- Two-year parts and labor standard.
- Optional on-site warranty available

Options
- Video monitor 14, 15 or 17" Mounting Rack
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audio data, to Thomson consumer electronics products on the other end?"

Did Sun have any previous history on the consumer side? You think of them as being in the high-end server business.

That was why, from a joint-venture standpoint, you could really rationalize the relationship. Sun was not on the consumer electronics side, did not have the consumer electronics distribution, didn't have the name-brand recognition with consumers. It had the name-brand recognition in the enterprise market, where Sun places most of its emphasis.

Thomson, on the other side, was exactly the opposite—great retail distribution, great brand recognition, but no presence on the enterprise side.

There were large telecommunications companies coming together, saying, "I'm going to launch video-on-demand services to a very large portion of my clients." You had cable companies saying, "I'm going to go aggressively after this area, and I want to integrate telephony and video all over my networks." Sun and Thomson recognized that that was substantial business, but it wasn't business they were going to do by themselves. They needed a partner to collaborate with.

The size of the companies was the same; both companies were international in scope—parallel infrastructures, so they'd be able to take a deal anywhere and support it. There was a lot of synergy—they didn't compete in each other's space. It wasn't like Apple and IBM coming together in the Taligent deal, for instance—"We're collaborators and we're competitors." The two companies didn't really compete with each other, so it was a more comfortable relationship.

The technologies complemented each other—the low-cost client side could be provided by Thomson, and Sun could provide the high-value server component side.

Bottom line was, sell more Sun servers and sell more Thomson settops! [*laughs*].

You'll remember, at the time TCI and Bell Atlantic were talking about their big merger...

That one fell apart since then...

Right, but that was the landscape at the time. When Thomson and Sun looked at that—"We're going to deploy video-on-demand to thirty million households"—that's business both companies would have liked to have.

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Time Warner-Orlando trial, but at that time people were thinking that that technology was going to be affordable in a very short time period, and it was going to be deployed on a mass scale. If you look at the server infrastructure it takes to support deploying video to all those subscribers, and managing all the content, and the databases and the billing and the support systems...the server infrastructure was huge. Thomson, on the other side, would be looking at outfitting all those consumer homes with new digital gear. That's a great deal for them too.

The pipe infrastructure wasn't trivial either.

Right, so that's another partner that would need to be involved. So the two companies chartered the alliance with the mission of creating an interactive solution that can be sold into that marketplace, actively go out and seek RFPs, respond to RFPs—

What are RFPs?

Requests for Proposals. It's a very common practice in the telecommunications industry, and also in the cable industry. If you want to build a new network infrastructure, then the technical staff at the cable or telecommunications company will build an RFP, and that RFP will be sent out to a broad range of suppliers. The suppliers will respond to the RFP, compete for the business, quote prices for the systems, quote their own architectures.

It's a way for cable or telecommunications companies, or any company really, to get a tremendous amount of competitive data and competitive architectures and competitive pricing gathered from a number of suppliers. The responses to some of these programs is huge.

So that was the charter of the company, to try to get in and, by collaborating between the two companies, win that business that might not otherwise be won, because other people were forming alliances and co-bidding. The project was just too big to be done by any single company.

How did you set out to do this, and what surprises did you encounter along the way?

The market changed. That was the biggest surprise for us.

The Web happened...

That's exactly right.

It became very clear that the full-service network, as it was in trial in the Time Warner-Orlando situation, was not economically viable and wouldn't be economically viable for quite some time.

Left to right: CEO Elliot Broadwin, engineering VP Vincent Dureau, worldwide marketing VP Mitchell Berman.

Our focus is "how do you reach out to people who are being passively entertained in their homes? How do you break the social and psychological barriers that interactivity brings?" Not only the how, but *what* is it that makes the change occur?

Why?

Overall hardware costs.

It wasn't a content issue, it was a hardware issue?

Correct. The content issues never got raised, at the end of the day. There are issues regarding the production of interactive content and the return on investment for interactive content, but it never really got down to that.

Basically if you look at a cable network or a telecommunications company, which are the companies that are funding these kinds of services and interested in deploying this kinds of services to subscribers—they look at the cost to install the service in the home. And they weren't going to get their investment back in line with their original business structure.

In a lot of ways it's a maturity-of-the-technology situation. It's clearly possible to do all these great things, but at this point in time the technology isn't mature enough on the cost scale to be affordable to deploy. Every technology has its right time in the marketplace—this technology will have its time, it's just not yet.

That was your original direction—to go into building a dedicated system?

Right. We were looking at Sun video-on-demand servers using the Sun Media Stream Manager system. We had Sun servers that would spit out 100 streams of video-on-demand; we had a content management system that would allow you to categorize all the content on the system and load it up in MPEG2 format; transmit it out over the network and rewind it and fast-forward it and pause it and select it and everything you needed to do.

We were building those systems, and we actually deployed one of them with Sprint in the Pacifica school system. We did a 103-classroom trial where we had a server in Burlingame. We used Sprint's Silicon Valley fiber optic test track, and then they ran fiber out to the seven different schools.

We had a settop box and a television inside each classroom. The educator in each classroom could go onto the system, look under the categories for second, third, fourth, fifth grade; look under math, science, history, English; look for what titles had been loaded on the server in Burlingame, and play those back for the class. Be able to pause, fast-forward, rewind, etc. They went out and got educational content and loaded it up on the server.

It was a great trial, and the technology performed very well. I think everybody in the school system was very pleased with it.

Sprint did this as a research project. They wanted to understand what it was like to send video traffic over the Silicon Valley test track. So for them I think it was a very successful trial, and to the best of my knowledge it's still up and operating today.

In the time frame from when we started to where we are now, or even in 1995, it became clear that the alliances were coming apart as fast as they had gone together, because the marketplace was changing.

Cable deregulation happened, telecommunications deregulation happened, and we saw companies starting to retrench into their traditional environments. Instead of a telecom-

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munications company feeling like they might be under attack from the cable industry, the regional telephone companies were under attack from the long-distance companies, and vice versa, with deregulation and being allowed to cross over into each other's markets. It became more important for an RBOC to protect its regional network and to attack a long-distance company as the long-distance company came in and tried to pick up its regional business.

They're deciding to focus on traditional telco competencies rather than going into the movie business?

That's exactly right. They withdrew and pulled back their efforts. The threat really wasn't from outside, from the cable industry, any longer; it was from within their industry, with people who had telco competence. What we've seen happen in that period of time is that everybody retreated back within their own industry.

There are a few companies that are still there. Americast, which is a consortium of some of the RBOCs, is still planning on rolling out their system. But the Bell Atlantic-TCI thing fell apart; so did TeleTV, which originally looked like it was going to be a very big microwave digital video system that was supposed to be deployed throughout the East Coast and California. It was a consortium of Pacific Bell, Nynex and Bell Atlantic, and they spent, what, $300 million, and nine months or so ago that one came apart.

We've seen so many of these things come and go. In the meantime, digital video distribution via satellite and cable continues to grow worldwide. It's happening in Europe, it's happening in Asia, it's continuing to happen in the US. You've got companies like DirecTV, who've been very successful in deploying digital satellite systems. They now have a very large competitor, EchoStar, and TCI has the PrimeStar part of their business that runs a digital satellite network. They have two million subscribers; DirecTV is closing in between the two and a half and three million mark.

Those networks have been very successful in building a subscriber base rapidly. That's the case worldwide, and it's happening much more rapidly than with the telecommunications companies, or even with the cable companies.

The cable companies are just beginning to deploy some digital services—@Home is a good example of some of the things TCI is doing. In the US, high-speed Internet is as attractive a market for services subscribers as the promise of interactive television.

Where are you positioned with regard to things like @Home and WebTV?

We focus our efforts on pay television networks as our customers. The value we bring to one of those networks is that they deploy a system that allows a subscriber to receive a very broad base of digital audio and video services. That's what motivates the subscriber to purchase the service, maybe invest in the product, lease the product, whatever the business model happens to be.

We can come into the network and add value to their equation. We can extend the functionality of the box to have some Internet connectivity; to be able to perform interactive functions; to enable interactive advertisements; to add value to the content that they broadcast, and to expand the range of services they offer.

Which is somewhat different from what WebTV is doing for the marketplace, which is bringing a separate device into the home that is not video-related, but brings an Internet experience into the home at a much lower price than a computer. It allows you to use the television as a display device.

You also offer that option as part of your suite of services, but more at the OEM level than the consumer level?

That's correct. We don't have a finished product, we're not a hardware manufacturer. We sell our system openly to any hardware manufacturer or any network operator that wants to use it.

We're building solutions so they can deploy these types of services, so we build pieces in the head-end infrastructure to support it, and we build the software that resides in the device in the consumer's home. But there's not a separate device in the consumer's home—this is really about expanding the functionality.

The core driver for the subscriber is movies, sports and news. That motivates them to enter into the digital television environment, and then we just add functionality and services there that make it more compelling.

Mitch Berman: There's a difference between those who use a personal computer and those who are watching television.

Even when they're the same person.

That is correct.

So why do people watch TV? Well, we all know why. It's movies, sports, and to be passively entertained. To forget about whatever's on their minds, to go home, take their shoes off, relax in a chair, watch a sporting event, watch a good movie—to mindlessly and passively do this thing called television.

This company is completely different from Intel, from Microsoft, Navio and Wink and PowerTV and all those companies that have their own vision—basically reaching out to people who are not necessarily people who watch television, bringing the Internet to those people.

That is a part of what we do, but our focus is "how do you reach out to people who are being passively entertained in their homes? How do you break the social and psychological barriers that interactivity brings?" Not only the how, but *what* is it that makes the change occur?

My challenge on a daily basis is, I picture those people sitting there—and from time to time I'm one of them. I put myself in that chair. What's going to make me pick up that remote control? Is it the hundred different services at the full-service network that Time Warner offered? Or all the services that Omaha offered with US West, their trial? Or Castro Valley, or GTE in Cerritos? No.

I think what Elliot and I are trying to do is help consumers walk before they run. The satellite services are basically where we can go today, because the broadcast networks aren't ready for digital yet, and we're a digital provider so we have to go where it's digital. I can't go to TCI yet, because they're not digital completely.

If I'm thinking of not only people who watch TV, but those people who are actually pay TV subscribers, that's a whole different bunch of people, because they are more proactive in their buying habits. They're paying $50 a month for watching TV. They're more proactive in their buying habits, in their response to advertisements, and so forth.

What drives them? Why do they subscribe? Why do they pay $50 a month? Well, some do it because they want to get better reception. We know that. But the underlying motivation is movies, sports, news/information, and music. Those have always been the drivers of the business, particularly movies and sports, and depending on what country you're in, those two flip-flop.

If I'm going to offer something that's going to make somebody pick up that remote control, my initial thought is, "Walk before you run; reach out to the realities of why they might be doing this in the first place." Try to create some content that is interactive, that enhances what they're already doing.

If I can make that fun and entertaining, if I can create some kind of creative participation, and if I add in something that I would call social value—if I can say to you, the consumer, "This is how I believe I can enhance the quality of your life," then I think we win.

continued on page 119

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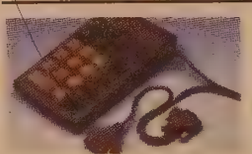

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FAX: (510) 642-9466

Tuesday, July 2, 1996

Over the last two years, the International and Area Studies division of the University of California at Berkeley has been using UMiracle Microsystems computers for their workstations and servers. UMiracle has been our best choice for highly competitive pricing, proven customer response time, and system reliability.

When servicing our own customers, having a computer vendor whose sales and technical teams are quick to respond is very important. UMiracle (and Ken Wu, in particular) has consistently surprised me with their timely and accurate responses. This has often beaten out other vendors who either take their time in responding to calls or never return them in the first place. When it comes to technical difficulties, UMiracle stands behind their products and provides the best support possible promptly

In addition, UMiracle computers have been highly reliable for their competitive pricing. Often companies worry if they will obtain quality products when they purchase computers at good prices. [illegible] that have proven to be [illegible] quick to respond in a

NORTH AMERICAN MEDICAL MANAGEMENT
2200 Powell St., Suite 455
Emeryville, CA 94530
(510) 450-1500
Fax: (510) 446-7477

OUR SERVICE OUR COMMITMENT

All [illegible] are put together and switches set/reconfigured. Windows 95, NT and all included software are tested for [illegible] purpose. Each system is also monitor mode tested and continuously burned in for 48 hours on all components and [illegible] subjected to trouble-free operation. All systems are to be inspected by customer at pick up time.
Most [illegible] and configurations have been pre-built, burn-in tested and are ready to be picked up or delivered within 60 minutes IN FREMONT MAIN OFFICE. Please allow more time for minor configuration changes. Standard delivery time is 72 hours. [illegible] include local area within 30 minutes driving distance. No delivery on weekends. Delivery out of local area will be charged at $30/night.
Most components come with over 1 year manufacturer warranty - First year will be covered by UMiracle. Warranty after the first year will be covered by the original manufacturers.
When you call our knowledgeable service dept. if there be any necessary warranty repair. If we couldn't solve the problem, another system will be delivered to your site on next business day (within 30 days.)
All pickups, repairs, exchanges, upgrades can be done in either Fremont, Belmont or Albany store. Original invoices & records required.

Intel

Spade Chan
UMiracle Microsystems
44063 Fremont Blvd
Fremont, CA 94538

[illegible] Pablo Ave. Ste
Albany, CA 94706

To whom it may concern

We have been delighted to have UMiracle as our sole provider of comput[illegible] hardware for our 7 server, 100+ user wide area network over the past y[illegible] timely, reliable and extremely courteous. In addition to superlative servic[illegible] salespeople and knowledgeable and (most importantly) accessible support [illegible] have been extremely competitive.

During the past year our organization has grown from approximately 20 P[illegible] approximately 75 PCS with several laptops and 5 file servers distributed ov[illegible] supplied virtually all of our hardware. In the health care management indu[illegible] of data is of the utmost importance and the hardware supplied by UMirac[illegible] reliability. In a few rare instances when there has been a problem with ext[illegible] configuration, hardware was politely and promptly replaced and helpful te[illegible] available.

UMiracle succeeds in all three of the most import aspects of a computer h[illegible] excellent support and competitive pricing, and we will continue to rely upo[illegible]

UMiracle is the computer product provider we choose when we are looking for computer hardware or software for our company. As a validation engineer, we are continually seeking the latest technology as we enhance our testing environment. We have purchased most of our new hardware & software from UMiracle over the past few months, and these products have been very reliable. We have also utilized UMiracle's technical engineering staff in the product choosing process which is very good in suggesting a variety of choices and cost effectiveness. We choose UMiracle for its helpful and responsive sales team, knowledgeable technical staff, and overall competitive pricing

UMiracle is a computer product vendor that stands out, and fulfills our computing needs in a responsive manner. When it comes to technical difficulties, UMiracle stands behind their products and provides efficient and prompt support.

Optional:

MS DOS V6.22 + Windows V3.11	Add$10
MS DOS V6.22 + Windows for WorkGroup V3.11	Add$30
Windows NT 4.0 Workstation/Server	Add$55/$460

IWill XUW UW SCSI

- IWILL P55XUW ATX mother board w/ Built-in Adaptec® 7880 (2940UW UltraWide SCSI), Intel 430TX chpst, MMX/Cyrix 686 CPU support, 50Pin Fast SCSI-2 & 68Pin Ultra Wide SCSI (40MB/s Burst) with optional RAID support, Pipelined 512K Cache, 3 PCI+4 ISA slots, 72Pin SIMM & 168PIN DIMM, PCI-IDE ports, FD, HiSpd I/O, USB, 50Pin+68Pin Wide SCSI + FD/HD/IO cables, Musical alarm CPU fan, PS/2 mouse port & EZ-SCSI V4.0L + complete Adaptec® software driver & manual included
- Genuine Intel Pentium® Processor w/ Alarm Cooling Fan
- 32MB 168Pin 12ns SDRAM DIMM
- 1.44MB Floppy Drive
- 3.2GB Quantum FireBall ST33260S Ultra SCSI-2 HD
- Toshiba XM-6002 16XSpeed IDE 2400KB/S CD-ROM
- Sound Blaster Compatible ES8 16Bit PnP Stereo Sound Card
- ATI 3D ProTurbo PC2TV 4MB SGRAM Video Card
- 17" Hitachi CM-620 .28DP 1280x1024NI Monitor
- GigaStar ATX style Medium Tower 235W ATX PS
- Logitech MouseMan PS/2 Mouse w/ Pad
- Pair of 80Watt Stereo Speakers
- Legitimate MS Windows 95 Full CD + Manual + installed + fully-configured

Intel Pentium®	
133MHz	$1904
166MHz	$1945
200MHz	$2068
mmx166	$2028
mmx200	$2107

UMiracle

UMiracle Microsystems
44063 Fremont Blvd. Fremont CA 94538
Phone:510-226-3666 Fax:510-226-6758
Email: sales@umiracle.com
1336 San Pablo Ave#1, Albany CA 94706
Phone:510-526-2626 Fax:510-526-0273
Email: sales@albanyumiracle.com
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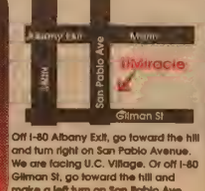

Off I-80 Albany Exit, go toward the hill and turn right on San Pablo Avenue. We are facing U.C. Village. Or off I-80 Gilman St, go toward the hill and make a left turn on San Pablo Ave.

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Ph:415-592-3333
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Belmont CA 94002
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Fax:415-592-2919

Business Hours:
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Saturday 10AM - 6PM
Sunday 12PM - 5PM
Yes! Open on Sundays!

From north or south, Off I-101 Ralston Ave, go towards west, left on El Camino Real and make a U-turn ASAP. We are on your right.

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Fremont CA 94538
Ph:510-226-3666
Fax:510-226-6758

Business Hours:
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Saturday 10AM - 6PM
Sunday 12PM - 5PM

Off I-880 Auto Mall Pkwy East, pass Technology Drive and make a right on Fremont Blvd, (or off 680 Durham, go west, pass Osgood Rd, then make a left on Fremont Blvd.) first driveway on your right.

AND BE A WINNER!

Intel Venus P6 Pentium Pro

Intel Venus Performance/VS Pentium® Pro motherboard w/256K Built-in CPU Cache, Intel® 440FX chpst, w/onbrd BusMaster IDE, HiSpd I/O, FD, PS/2 Keybrd+mouse ports, ZIF Socket 8, AMI PnP Flash BIOS, FP/ EDO 72Pin SIMM upto 256MB, ATX Form Factor board
Genuine Intel Pentium® Pro Processor w/ Cooling Fan
32MB=16MBx2 60ns 72Pin EDO SIMM RAM
1.44MB Floppy Drive
3.2GB Quantum FireBall ST33240A UltraDMA IDE HD
Toshiba XM-6002 16XSpeed IDE 2400KB/S CD-ROM
Creative Lab Sound Blaster 32 PnP Stereo Sound Card
ATI 3D ProTurbo PC2TV 8MB SGRAM Video Card
17" Hitachi CM-620 .28DP 1280x1024NI Monitor
GigaStar ATX style Medium Tower 235W ATX PS
Liton SK6000 Ergonomic Win95 PS/2 Keyboard
Logitech 3-Button MouseMan PS/2 Mouse w/ Pad
Pair of 80Watt Stereo Speakers
Legitimate MS Windows NT V4.0 Workstation CD + Manual + installed + fully-configured

Pentium® Pro	
150MHz 256K	$1891
180MHz 256K	$2009
200MHz 256K	$2081
200MHz 512K	$2644

TREEHOUSE SOFTWARE CONSULTING GROUP

July 25, 1996

Tony Nguyen
Sales Representative
UMiracle Microsystems, Inc.
44063 Fremont Blvd
Fremont, CA 94538

Tony,

I just wanted to drop you a note of appreciation for your work in delivering our 3 SuperMicro Dual P6 Pro computers. The computers are great! They run Windows NT flawlessly. Installation was a breeze because UMiracle made

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A Division of First Southwest Company

Messrs. Lawrence Leng, Sales Manager and Eddie Chung, Store Manager
UMiracle Microsystems Inc.
1501 E[illegible]
Belmont C[illegible]

Intel Providence P6²

- Intel Providence PR440FX Dual Pentium® Pro processor-based board - Intel 440FX PCISet, support Dual Pentium® Pro 200Mhz CPUs, EDO ECC 168Pin DIMM upto 512MB, Integrated LAN Controller Intel 82557 (=EtherExpress® Pro/100B), Integrated Ultra/Wide SCSI Adaptec® 7880 w/ onbrd+External mini-68Pin 16bit Wide Connectors, Integrated Audio - Crystal+Yamaha OPL3 FM Synthesizer, 16bit Stereo Sound, 4 PCI+1 ISA slots, onbrd PCI Bus Master IDE interfaces,HiSpd I/O, FD, Dual ZIF Socket 8, Flash AMI PnP BIOS, ATX form Factor
- Genuine Intel Pentium® Pro Processor(s) w/Cooling Fan(s)
- 64MB=64MBx1 168Pin 8Mx72 EDO ECC Buffered DIMM
- 1.44MB Floppy Drive
- 3.2GB Quantum FireBall ST33260S Ultra-SCSI-2 HD
- Toshiba XM-6002 16XSpeed IDE 2400KB/S CD-ROM
- ATI 3D ProTurbo PC2TV 8MB SGRAM Video Card
- 21" Hitachi CM-800U .22DP 1600x1200NI 75Hz Monitor
- GigaStar ATX style Full Tower 235W ATX PS
- Liton SK6000 Ergonomic Win95 PS/2 Keyboard
- Logitech 3-Button MouseMan PS2 w/ Pad
- Pair of 120Watt Stereo Speakers
- Legitimate MS Win[illegible] + Manual + installed + fully-configured

	Single	Dual
180MHz 256K	$3632	$4057
200MHz 256K	$3704	$4177
200MHz 512K	$4267	$5324

Portland Pentium II

PII is here!

- Intel Portland PD440FX Pentium II ATX Motherboard - Boxed version, 233-266MHz Supported, 440FX Chipset, 3 ISA+3 PCI Slots, 512K Cache on Pentium II CPU Cartridge, 4 - 72Pin SIMM Slots, Onboard Super I/O/FD/IDEs/ PnP Yamaha POP3 Integrated Audio
- Intel Pentium® II 512K Processor w/ Cooling Fan
- 32MB=16MBx2 60ns 72Pin EDO SIMM RAM
- 1.44MB Floppy Drive
- 3.2GB Quantum FireBall ST33260A UltraDMA IDE HD
- Toshiba XM-6002 16XSpeed IDE 2400KB/S CD-ROM
- ATI 3D ProTurbo PC2TV 8MB SGRAM Video Card
- 20" Hitachi CM-2011MU .28DP 1600x1200NI Monitor
- Premium ATX style Full Tower 235W ATX PS
- Liton SK6000 Ergonomic Win95 Keyboard
- Logitech 3-Button MouseMan Serial Mouse w/ Pad
- Pair of 120Watt Stereo Speakers
- Legitimate MS Windows NT V4.0 Workstation CD + Manual + installed + fully-configured

Intel Pentium® II	
233MHz	$2965
266MHz	$3118

NoteBook Options:		
	MS DOS V6.22 + Windows V3.11	Add$100
	MS DOS V6.22 + WFWG V3.11	Add$120
	Windows 95 CD Full OEM Version	Add$90
	Windows NT 4.0 Workstation/Server OEM	Add$145/$[illegible]

CHEM 9750 NoteBook Options	
EDO DIMM 16MB=8X2pc	$105
EDO DIMM 32MB=16X2pc	$210
Auto Adaptor 12V	$75
AC Adaptor	$79
NiMH 2nd Battery	$115
Li-Ion 2nd Battery	$225
Battery Charger	$95
Port Duplicator	$150
Upgrade to 16x CDROM	$80

NoteBook Harddrive/Accessories	
1.4GB 2.5" IDE Slim HD	$245
2.1GB 2.5" IDE Slim HD	$375
3.0GB 19mm IDE Slim HD	$585
PCMCIA 33.6 Fax/Data	$189
PCMCIA Ethernet Comb	$89

MULTIMEDIA NOTEBOOKS

FD Replaceable w/2nd Battery
Upto 64MB EDO Memory
Large 12.1" Active Color
Built-in 11X CD-ROM
PCI Fast 64 bit 2D/3D Control
Lithium-Ion Battery Included

CHEM 6800 SPECIFICATIONS

- Intel Pentium 100/120/133/166/200MHz
- Pipelined Synchronous 256K Level-2 Cache
- 12.1" Active Matrix Screen
- 2MB EDO Video RAM on PCI v2.1 Bus
- Expandable EDO Memory up to 64MB
- 800x600x16M True Colors
- 64Bit PCI bus with graphics accelerators
- SystemSoft flash BIOS with Plug & Play
- Built-in 11X CD-ROM
- 16Bit Stereo sound System
- 3 x Type II or 1 x Type II+1 x Type III (Support Zoom Video Port)
- Modem Ring in wake up on Power Mgmt
- Built-in 1MB Mask ROM hardware wavetable
- Removeable Floppy & hard drive
- Infra-red IrDA and FIR
- RCA jack for TV-Out
- Windows 95 Keyboard

CHEMBOOK 9750 ■ P5 CPU upto 200MHz ■ Active Screen 12.1"/13.3" ■ 16MB EDO onbrd ■ 256K PB L2 Cache ■ 1.44FD ■ 10xSpeed CDROM ■ 2MB EDO Video RAM ■ Li-ion Battery ■ 16Bit Stereo Sound ■ Video Catpure Port ■ IS/IP ports ■ InfraRed port ...

(1.4/2.1/3.0GB HD)	Active Matrix 12.1"	Active Matrix 13.3"
■ P5-133Mhz	$2296/$2404/$2620	$2896/$3004/$3220
■ P5-166Mhz	$2337/$2445/$2661	$2937/$3045/$3261
■ P5-200Mhz	$2479/$2588/$2804	$3079/$3188/$3404

Call for Intel Pentium 166/200MHz MMX Upgrade.

Large 13.3" Active Color
Video Capture Port Built-in
Lithium-Ion Battery Included

FD Replaceable w/2nd Battery
Upto 80MB Main Memory

CHEM 9750 SPECIFICATIONS

- Intel Pentium 120/133/150/166/200MHz/MMX
- 13.3" TFT XGA/12.1" TFT SVGA
- 16MB Memory onbrd, expand upto 80MB
- 800x600x16M True Colors, 2MB Video RAM
- 64bit PCI bus graphics accelerator
- SystemSoft Flash BIOS with PnP
- 10XI CD ROM, exchange w/FDD or Battery
- 16Bit Stereo Sound System
- Pipelined Synchronous 256K Level-2 Cache
- Infra-red IrDA and FIR
- Video Capture port
- Windows 95 Keyboard

CHEM BOOK 9750

CHEM BOOK 6800

CHEMBOOK 6800 ■ P5 CPU ■ Active 12.1" ■ 16MB EDO 144Pin[illegible] ■ 256K PB L2 Cache ■ 1.44FD ■ 11X CDROM ■ 2MB EDO Video ■ TouchPad ■ 16Bit Stereo Sound ■ RCA jack ■ IS/IP ports ■ Li-ion Batt ■ Infrared port ...

Active Matrix TFT	133/150/166	166/200
■ Pentium-133Mhz	$2192/$2300/$2516	
■ Pentium-166Mhz	$2233/$2341/$2557	
■ Pentium-200Mhz	$2376/$2484/$2700	

CHEM 6800 NoteBook Options	
16MB=16x1 144Pin EDO	$105
32MB=32x1 144Pin EDO	$195
Auto Adaptor 12V	$75
AC Adaptor	$80
Li-ion Internal Battery	$215
Battery Charger	$95
Port Duplicator	$120

- Free Local Area Delivery for System Purchase
- 1 Year Parts + Life Time Upgrade Labor Warranty on Systems
- Expertise Technical Support On Duty Daily
- 30 Day Compatibility Guarantee on Complete Systems

UMiracle Microsystems

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What is RAID?

RAID is an acronym for Redundant Array of Inexpensive (or Independent) Disks. A RAID array is a collection of drives which collectively act as a single storage system, which can tolerate the failure of a drive without losing data, and which can operate independently of each other. Among all RAID implementations, RAIDport, the latest Adaptec RAID 5 solution, is the most cost-effective way to protect your data. If the data in your file server is vital to your survival of your business, RAID-5 is the way to go!

Tahoe II Pentium II

- TYAN Tahoe-2 ATX S1682D Dual Pentium II 233-300 MHz System Board - 5 PCI + 3 ISA Slots, 8 72Pin SIMM for Max 512MB, Onbrd Super IO/FD/IDEs/USBs/PS2, Flash Award BIOS
- Intel Pentium® II CPU(s) w/ Cooling Fan(s)
- 32MB=16MBx2 60ns 72Pin EDO SIMM RAM
- 1.44MB Floppy Drive
- Adaptec 2940U Fast PCI Ultra SCSI-2 Controller
- Three 3.2GB Quantum FireBall ST33260S Ultra-SCSI-2 HDs
- Toshiba XM-6002 16XSpeed IDE 2400KB/S CD-ROM
- Trident 9680 PCI 1MB MPEG+AVI Video Card
- 14" ShamRock 1Kx768NI Pwr-Saving Monitor
- GigaStar ATX style Medium Tower 235W ATX PS
- KeyTronic 104 Key Win95 PS/2 Keyboard
- MicroSoft Ergonomic Serial Mouse w/ Pad
- [illegible] Server CD
- Manual + Installation + Daily Operation [illegible]

Single Pentium II
233MHz $3070
266MHz $3227
Dual Pentium II
233MHz $3743
266MHz $4056

RAID-5 Pentium Pro² Server

- IWILL DP6NS Dual Pentium® Pro processor-based board w/Built-in Adaptec® PCI SCSI chipset 7880 (AHA-2940UW Ultra Wide SCSI), 50Pin Fast SCSI-2 & 68Pin Ultra Wide SCSI (40MB/s Burst) with optional RAID support, Intel 440FX chipset, ZIP Socket 8, 150-233Mhz, 3 PCI+4 ISA slots, FP or EDO 72Pin SIMM & support upto 512MB, built-in PCI-IDE interfaces, FD, 2-16550 UARTs, ECP/EPP support 4 IDE HDs, PnP 50pin SCSI + 68pin Wide SCSI + FD/HD/IO cables, PS/2 mouse port & EZ-SCSI V4.0L + complete Adaptec® software driver & manual included
- Adaptec RAID 1130 daughterboard - upgrades IWILL P6NS2 to support hardware assisted RAID 0,1,0/1,5, complete Adaptec Viking Software for NT, Novell, Unix, 4MB cache memory installed for speedy performance
- Genuine Intel Pentium® Pro Processor(s) w/ Cooling Fan(s)
- 32MB=16MBx2 60ns 72Pin EDO SIMM RAM
- 1.44MB Floppy Drive
- Toshiba XM-6002 16XSpeed IDE 2400KB/S CD-ROM
- Four 3.2GB Quantum FireBall ST33240S Ultra-SCSI-2 HDs
- Trident 9680 PCI 1MB MPEG+AVI Video Card
- 14" ShamRock 1Kx768NI Pwr-Saving Monitor
- GigaStar ATX style Full Tower 235W ATX PS
- KeyTronic 104 Key Win95 PS/2 Keyboard
- MicroSoft Ergonomic Serial Mouse w/ Pad

P6² is here!

	Single	Dual
150MHz/256k	$3379	$3695
180MHz/256k	$3504	$3944
200MHz/256k	$3577	$4091
200MHz/512k	$4161	$5259

RAID-5 AMI Quad P6

- AMI (American Megatrends, Inc) Goliath Quad Pentium® Pro Processor EISA/PCI motherboard - U.S. designed & made 180/200MHz (or higher) 1/2/4 processors supported, easy processor upgrade thru CPU based board approach, 1GB memory max onboard with 168pin slots, 4 way interleave structure for max performance ECC supported, 168Pin DIMM supported, Intel 82450GX chipset, AMI Green Flash BIOS, 6 PCI + 4 EISA slots, integrated I/O w/ 1P/2S/FD/2 PCI IDEs/PS2 mouse
- Genuine Intel Pentium® Pro Processor(s) w/ Cooling Fan(s)
- 64MB=32MBx2 168Pin 4Mx72 EDO ECC Buffered DIMM
- 1.44MB Floppy Drive
- Toshiba XM-6002 16XSpeed IDE 2400KB/S CD-ROM
- Mylex DAC960PU/1 RAID-5 Ultra-Wide SCSI-3 PCI Controller with 8MB parity cache memory for speedy performance
- Five 3.2GB Quantum FireBall ST33260S Ultra-SCSI-2 HDs
- Trident 9680 PCI 1MB MPEG+AVI Video Card
- 14" ShamRock 1Kx768NI Pwr-Saving Monitor
- Heavy-Duty Server Case Model LT-18 supporting 11 drive bays, 26"x10"x25", removable front & side doors, Lockable front door for security, "snap-in" drive mounts, swing-out feet
- 400W AT Size Power Supply special-designed for AMI Goliath with 12V/5V/3.3V DC output
- KeyTronic 104 Key Win95 PS/2 Keyboard
- MicroSoft Ergonomic Serial Mouse w/ Pad

P6⁴ is here!

ULTRA WIDE 40MB/s Ready!!!

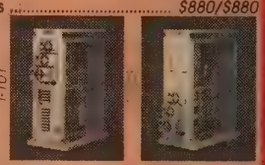
Intel Pentium® Pro
Dual 200MHz 256/512k
$9535/$10705
Quad 200MHz 256/512k
$11865/$14205

LOOKING FOR YOUR DREAM MACHINE AT THE CHEAPEST PRICE? SHOPPING FOR A PC IN THIS RAZOR-THIN-PROFIT INDUSTRY IS DANGEROUS BECAUSE 70% OF THE DEALERS WON'T LIVE TILL THE FOURTH YEAR IN BUSINESS, MOST SELL 3 OR 4 MACHINES A WEEK WITHOUT KNOWING WHAT THEY ARE SELLING AND 99% DON'T WANT TO SEE ANY MACHINE COMING BACK AFTER YOU WALK OUT OF THE DOOR. AT UMIRACLE, WE BUILD HUNDREDS OF PC'S EVERY WEEK, WE TEST EVERY POSSIBLE COMBINATIONS OF SOFTWARE AND HARDWARE FOR COMPATIBILITY, AND WE STAND BEHIND YOUR PC'S LIFETIME LONG! WHY? BECAUSE WE LOVE YOUR PC AS MUCH AS YOU DO! COME BY AND VISIT ONE OF OUR STORES AND YOU WILL FIND OUT WHY YOU WILL BE THE WINNER!

NT ENHANCEMENTS

[illegible] Quad Pentium® Pro Processor based [illegible] V4.0 compatible. We will match [illegible]

- **Memory**
  - *16/32/64/128MB 10ns SDRAM UnBuffered 168Pin DIMM for 430VX/TX ..... $Call*
  - *16/32/64/128MB 60ns DRAM ECC EDO Buffered 168Pin DIMM for 440FX ..... $Call*
- **RAID 5 Fast Ultra Wide SCSI-2 Host Adapter (for RAID-5 implementation, an IDE HD as boot drive is recommended)**
  - *DPT SmartCache IV SCSI Adapter & RAID Series/SmartRAID IV RAID Series ..... $Call*
  - *Mylex DAC960 Series Hi-Performance PCI RAID Controller with upto 3 UW SCSI channels supporting 45 HDs, upto 64MB Cache installable ..... $Call*
  - *AMI Complete MegaRAID Solution including:SCSI RAID level 0,1,3,5,10,30, and 50 PCI Disk Array Controllers/FlexRAID/Advanced Management Software/Advanced Enclosure Management/Boot-Up Configuration/Power Console/General Alert ..... $Call*
- **TapeDrive - HP DAT DDS/DDS-2 Drive (Sold & integrated with system only)**
  - *HP DAT C1534 DDS DAT Tape Drive (2GB on 90m Tape) $540*
  - *HP DAT C1536 DDS DAT Tape Drive w/DCLZ Hardware Compression (4GB on 90m Tape with compression) $605*
  - *HP DAT C1599A DDS-2 DAT Tape Drive w/DCLZ Hardware Compression (8GB on DDS-2 format with compression) $779*
  - *HP DAT C1553A DDS-2 Autoloader w/DCLZ Hardware Compression (48GB on DDS-2 format with compression) $2010*
  - *Seagate 32GB DAT DDS-2 Autoloader 4586NP (4 DAT Tape Support) $1235*
  - *Optional 12 Tape Magazine for above 4586NP upto 96GB (no tape) $135*
- **High End Video Card - 3D Rendering/Graphic Animation/OpenGL**
  - *Symmetric GLyder MAX/TX-16/TX-40/MP-40 3D Accelerator ..... $520/$1790/$2245/$2520*
  - *Dynamic Pictures OpenGL Accelerator Oxygen102/202/402 ..... $985/$2075/$3655*
- **Server Chassis (T-101)/Disk Array Chassis (T-103): Dimension=13"x31"x22" w/Dual Redundancy & Hot Swappable Power Supplies ..... $880/$880**
  - *T-101: 12 DriveBays/Upto 2 PowerSupply 2x300W 2x4.6" Smart Fans w/ Efficient Air Flow Full Size AT Motherboard FormFactor*
  - *T-103: 16 DriveBays/Upto 2 PowerSupply 2x300W 2x4.6" Smart Fans w/ Efficient Air Flow Perfect RAID Disk-Array Sub-Chassis*



- **Server Chassis LT-18 By Axxion w/o Power Supply.....$480**
  - *Full-size AT, Baby AT, oversize AT based boards, 11 drive bays (one 3.5" and four 5.25" exposed, six 5.25" hidden bays), Twelve slots, "snap-in" drive rails, secondary cooling fans, accepts standard power supply. Dimensions: 26" x 10" x 24.5" (DxWxH).*

- **Server Enclosure KS-1400 w/ Dual Redundant Hot-Swappable 300Wx2 PS.....$990**
  - *Full-size AT, Baby AT, oversize AT based boards, 14 5.25" drive bays, Twelve slots, "snap-in" drive rails, 8 cooling fans, Dimensions: 20.5" x 16.25" x 23.75" (DxWxH)*

- **CD-ROM Tower Subsystem Chassis**
  - *7 Plextor 20X PX-20TSI w/250W PS $2039*
  - *7 Toshiba 15X XM-3801B w/250W PS ... $1255*
  - *7 Toshiba 12X XM-5701B w/250W PS ... $1085*
- **UPS Un-interrupted Power Supply**
  - *APC SmartUPS 420VS 420VA 4 minute Full 9 Minute Half load 4 outlets $269*
  - *APC SmartUPS 650VS 650VA 5 minute Full 11 Minute Half load 4 outlets $325*
  - *APC SmartUPS 1000VS 1000VA 6 minute Full 15 Minute Half load 6 outlets $455*
  - *APC SmartUPS 1400VS 1400VA 7 minute Full 19 Minute Half load 6 outlets $599*

Compatibility Guaranteed

Windows NT 4.0 Server/Workstation

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uMiracle Microsystems
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Phone:415-592-3333 Fax:415-592-2919
Email: sales@umiracle.com

DISCOVER ATM VISA MasterCard

Albany Store
Ph:510-526-2626
1035 San Pablo Ave #1
Albany CA 94706

Off I-80 Albany Exit, go toward the hill and turn right on San Pablo Avenue. We are facing U C. Village Or off I-80 Gilman St, go toward the hill and make a left turn on San Pablo Ave.

Belmont Store
Ph:415-592-3333
1501 El Camino Real #E
Belmont CA 94002
Ph 415-592-3333

From north or south, Off I-101 Ralston Ave, go towards west, left on El Camino Real and make a U-turn ASAP. We are on your right.

Fremont Main
Ph:510-226-3666
44063 Fremont Blvd
Fremont CA 94538

Off I-880 Auto Mall Pkwy East, pass Technology Drive and make a right on Fremont Blvd. (or off 680 Durham, go west, pass Osgood Rd, then make a left on Fremont Blvd.) first driveway on your right.

uMiracle uMiracle uMiracle

REAL STUFF, REAL QUALITY, REAL PRICES

Motherboard without CPU: (Call for CPU Prices)

486 PCI 256K w/ E-IDE, FD, HiSpd I/O, 3 PCI+4 ISA slots, support 72Pin SIMM $75
A-BIT Jumperless 512K Motherboard Pentium 75-200Mhz/Cyrix® 686-200+/AMD K5/K6 supported, 2 DIMM+4 SIMM slots, PCI AT-form, 430VX chpst, 4 PCI+3 ISA slots, onbrd PCI-IDE, HiSpd I/O, FD, Flash BIOS w/ OverClock Setting $105
ASUS TX97 Pentium® processor-based board - 430TX PCISet, Pipelined 512K onbrd, 75-200Mhz Pentium/MMX/AMD/Cyrix200+ CPUs, 4 PCI+4 ISA+1 ASUS MediaBus slots, 168Pin DIMMx3 support, onbrd Ultra-IDE, FD, HiSpd I/O, Flash Award BIOS w/NCR SCSI Suppt, AT form factor $150
ASUS TX97-E same as TX97, plus 72PinSIMMx4 support $155
ASUS TX97-X Pentium® processor-based board - 430TX PCISet, Pipelined 512K onbrd, 75-200Mhz Pentium/MMX/AMD/Cyrix200+ CPUs, 4 PCI+4 ISA slots, 168Pin DIMMx3 support, CreativeLabs VIBRA PnP Audio, onbrd Ultra-IDE, FD, HiSpd I/O, USB, Flash Award BIOS w/NCR SCSI Suppt, ATX form factor $190
ASUS TX97-XE same as TX97X, plus 72PinSIMMx4 support $190
ASUS KN97-X Pentium II processor-based board - 233-266MHz Supported, 440FX Chpst, 3 ISA+5 PCI Slots, 512K Cache on Pentium II CPU Cartridge, 1 DIMM+4 SIMM Slots, Onboard Super I/O/FD/IDEs/USBs, PnP Audio w/ Creative Labs Vibra 3D, ATX form, Award BIOS $299
Intel Tucson TC430HX Pentium® processor-based Board - 430HX PCISet, Pipelined 512K onbrd, 75Mhz & up MMX CPU support, 4 PCI+3 ISA slots, 72Pin SIMM support upto 128MB, onbrd PCI-IDE, FD, HiSpd I/O, USB, Flash AMI BIOS, Built-in Yamaha OPL3 FM Synthesizer stereo sound w/line-in/out, Joystick, WaveTable connector, ATX form factor $160
Intel Venus Performance/VS Pentium® Pro processor based motherboard - 440FX chpst, 150/180/200Mhz/future CPU support, 3 ISA+4 PCI slots, onbrd PCI-IDE, FD, HiSpd I/O, PS/2 mouse + kybrd connectors, Flash AMI BIOS, 72Pin SIMM support upto 256MB, ATX form factor $140
Intel Providence PR440FX Dual Pentium® Pro processor-based board - Intel 440FX PCISet, support Dual Pentium® Pro CPUs w/VRM, ECC EDO buffered 168Pin DIMM upto 512MB, Integrated LAN Controller Intel 82557 (=EtherExpress® Pro/100B), Integrated UltraWide SCSI Adaptec® 7880 w/onbrd + External mini-68Pin Wide Connector, Integrated Audio - Crystal+Yamaha OPL3 FM Synthesizer 16bit StereoSound, 4 PCI+1 ISA slots, onbrd PCI Bus Master IDE ports, HiSpd I/O, FD, Dual ZIF Socket 8, Flash AMI PnP BIOS $550
Intel Portland PD440FX Pentium II ATX Motherboard - Boxed version, 233-266MHz Supported, 440FX Chipset, 3 ISA+3 PCI Slots, 512K Cache on Pentium II CPU Cartridge, 4 72Pin SIMM Slots, Onboard Super I/O/FD/IDEs/ PnP Yamaha POL3 Integrated Audio $290
IWILL P55XUW PCI Pentium® processor-based ATX board w/ Built-In Adaptec® PCI SCSI chipset 7880 (AHA-2940UW UltraWide SCSI), Intel 430TX chpst, MMX/Cyrix 686 CPU support, 50Pin Fast SCSI-2 & 68Pin Ultra Wide SCSI (40MB/s Burst) with optional RAID support, Pipelined 512K Cache onbrd, 3 PCI+4 ISA slots, 72Pin SIMM & 168PIN DIMM, onbrd UltraDMA IDE ports, FD, HiSpd I/O, USB, 50+68Pin Wide SCSI + FD/HD/IO cables, Musical alarm CPU fan, PS/2 mouse port & EZ-SCSI V4.0L + Adaptec® software & manual included. $315
IWILL DP6NS Dual Pentium® Pro processor-based board w/Built-In Adaptec® PCI SCSI chipset 7880 (AHA-2940UW UltraWide SCSI), 50Pin Fast SCSI-2 & 68Pin Ultra Wide SCSI (40MB/s Burst) with optional RAID support, Intel 440FX chpst, 150-233Mhz, 3 PCI+4 ISA slots, 72Pin SIMM support upto 512MB, onbrd PCI-IDE ports, FD, HiSpd I/O, 50Pin SCSI + 68Pin Wide SCSI + FD/HD/IO cables, PS/2 mouse port & EZ-SCSI V4.0L + complete Adaptec® software driver & manual $530
Adaptec ARO1130 RAID-5 Option Card for IWILL P55TU, P55AVW or DP6NS - easily turn IWILL's 2940UW SCSI embedded motherboards to support hardware assisted RAID 0/1,0,1,5 level, 1/4MB Cache upgradeable, complete Adaptec RAID Viking software drivers supporting NT 3.51, 4.0, UNIX, Novell 3.xx,4.xx $320
IWILL P11NS Pentium II processor-based board - 233-300MHz Supported, 440FX Chipset, 4 ISA+4 PCI Slots, 512K Cache on Pentium II CPU Cartridge, 8 SIMM Slots upto 1GB, Onboard Super I/O/FD/IDEs/USBs, Built-in Adaptec® PCI SCSI chipset 7880 (AHA-2940UW UltraWide SCSI), 50Pin Fast SCSI-2 & 68Pin Ultra Wide SCSI (40MB/s Burst) with optional RAID support, ATX, Award BIOS $420
TYAN Tahoe-A ATX S1684SA Pentium II 233-300 MHz System Board - 4 PCI + 4 ISA Slots, 6 72Pin SIMM for Max 512MB, Integrated Creative Labs Vibra 16 Audio, Onbrd Super IO/FD/IDEs/USBs/PS2, Flash Award BIOS (Also supports Pentium Pro CPU with optional Riser Card) $305
TYAN Tahoe-2 ATX S1682D Dual Pentium II 233-300 MHz System Board - 5 PCI + 3 ISA Slots, 8 72Pin SIMM for Max 512MB, Onbrd Super IO/FD/IDEs/USBs/PS2, Flash Award BIOS (Also supports Pentium Pro CPU with optional Riser Card) $345
AMI (American Megatrends, Inc) Gallath Quad Pentium® Pro Processor EISA/PCI motherboard - U.S. designed and made 180/200MHz (or higher) 1/2/4 processors supported, easy upgrade thru CPU based board approach, 1GB memory max onboard with 168 pin slots, 4 way interleave for max performance, ECC support, 168Pin DIMM support, 82450GX chpst, AMI Flash BIOS, 6 PCI+4 EISA slots, integrated I/O w/ 1P/2S/FD/IDE, Full Size AT form factor
Above w/ two 200MHz Pentium Pro 256K CPUs $5230
Above w/ four 200MHz Pentium Pro 256K CPUs & 2nd CPU baseboard $7855

CPU & Memory: (Prices Subject to Change without notice)

Intel Pentium® Pro processor 256K/512K 150/180/200Mhz ..... $Call
Intel Pentium® II processor 233MHz/266MHz 512K Cache ..... $Call
Pentium® P5-100/120/133/150/166/200MHz/MMX CPU ..... $Call
AMD® 486-100DX4/120DX4/5x86-133DX4/K5/K6 ..... $Call
Cyrix®/IBM® 6x86-120+/150+/166+/200+ CPU ..... $Call
256/512K Synchronous Pipelined Cache COAST module ..... $20/$25
1MB/4MB 30Pin SIMM RAM ..... $Call
72Pin SIMM - 32/36Bit-FP/EDO/Parity ..... $Call
16/32/64MB 168Pin SDRAM DIMM Unbuffered 12ns for Triton VX/TX board .. $Call
32/64/128MB 168Pin EDO DRAM DIMM w/ECC Buffered 60ns for PR440FX Providence/AMI Goliath motherboard ..... $Call

I/O Card/Controller Card:

Adaptec 2940U Fast PCI Ultra SCSI-2 Controller $180
Adaptec 2940UW PCI Ultra WIDE SCSI-2, 40MB/s, 15 devices support $210
Western Digital PCI-SCSI Adapter - 7193RTL, Fast SCSI-2, 10MB/s, 50Pin Connection, upto 7 devices, PnP,CorelSCSI! Drivers $85
External SCSI-2 50Pin Mini-68Pin Adapter for any onboard internal 50pin ribbon cable SCSI interface $20
External Wide SCSI Mini-68Pin Adapter with 3-68pin-connector internal ribbon cable for any onboard internal 68pin Wide SCSI interface $45
Fast Wide SCSI-2 Internal Ribbon Cable, 68Pin, 2 / 3 connectors $20/30
External SCSI Cables Centronic/Mini/UltraDensity 50/68Pin ..... $Call
External SCSI Terminator SCSI-2/Mini 50/Mini 68Pin ..... $Call

Network Card:

Ethernet NE2000 ISA PnP/Softset 16Bit Combo $25
Ethernet PCI Combo (Full-Duplex, 10Base2&T) 32bit $50
Intel EtherExpress Pro 10/100 PCI ENET 32Bit 10-BT (PILA8465B) $65
3COM Etherlink III 3C509B Combo $75
3COM Etherlink XL 3C900 Parallel-Tasking PCI Combo $78
3COM Fast Etherlink XL 3C905-TX Parallel-Tasking 100BT PCI $65

Video Card:

Trident 9680 Windows Accelerator PCI 1MB/2MB with MPEG and AVI Motion Video built-in $35/45
Diamond Stealth 3D 2000XL PCI 4MB EDO-DRAM $90
Diamond Stealth 3D 3000XL PCI 2MB/4MB VRAM ..... $110/$175
ATI 3D ProTurbo PC2TV SGRAM 4MB/8MB ..... $140/$185
Matrox MGA Millennium II WRAM PCI 4MB/8MB ..... $250/$345
Memory module for Millennium 4MB/8MB ..... $135/$215
Matrox MGA Millennium 2MB/4MB WRAM PCI ..... $150/$185
Memory module for Millennium 2MB/4MB/6MB ..... $90/$135/$210
Matrox MGA Mystique 2MB/4MB SGRAM $115/135

Monitor:

14" ShamRock 1Kx768Nlx0.28DP Digital Control Pwr-Saving Monitor $160
15" ShamRock 1280x1KNlx0.28DP Digital Control Pwr-Saving Monitor $230
17" ShamRock 1280x1KNlx0.28DP Digital Control Pwr-Saving Monitor $445
Hitachi NSA SuperScan Pro CM-500U 15" .28DP,1280x1024 ..... $315
Hitachi NSA SuperScan Pro CM-620U 17" .28DP,1280x1024 ..... $525
Hitachi NSA SuperScan Pro CM-751MU 19" .22DP,1600x1200 ..... $1045
Hitachi NSA SuperScan Pro CM-2013MU 20" .28DP,1600x1200x66Hz $1135
Hitachi NSA SuperScan Pro CM-800U 21" .22DP,1600x1200x75Hz $1355
Hitachi NSA SuperScan Elite CM-630U 17" .22DP,1600x1280x69Hz $695
Hitachi NSA SuperScan Elite CM-802U 21" .22DP,1600x1280 ..... $1790
Hitachi NSA SuperScan Elite CM-803U 21" .22DP,1800x1440 77Hz $1890
MAG Technitron Series Trinitron Tube, Digital Control, 0.25DP,1280x1KNI, 3yr Manu. Warranty 15" DX15T/DX700T ..... $365/$655
liYAMA VisionMaster-17 MF-8617E 17" .26DP, Microprocessor Contrl, PnP,DPMS, MPRII, Full On-screen program, 1600x1200@69Hz $585
liYAMA VisionMaster-Pro 17 MT-9017E 17" .25DP, Microprocessor Contrl, PnP,DPMS, MPRII, Full On-screen program, 1600x1200@72Hz, Trinitron Tube $665
liYAMA VisionMaster MF-8221E 21" .22x.16DP, Microprocessor Contrl, PnP,DPMS, MPRII, Full On-screen program, 1600x1200@76Hz $1245
liYAMA VisionMaster MT-9021E 21" .30x.00DP, Microprocessor Contrl, PnP,DPMS, MPRII, Full On-screen program, 1600x1200@76Hz, Trinitron Tube $1355
Sony 15" 100SX/100SF ..... $380/$430
Sony 17" 200SX/200SF/17SE2T ..... $665/$745/$865
Sony 20" 300SFT/GDM20SE2T ..... $1575/$1830
Viewsonic E641/E655/15GA/15GS/17EA/17GA/17GS/17PS/PT770/PT775/GT770/G800/G810/PT813/G810/GT800/29GA/P810/P815 ..... $Call
Mitsubishi, NEC, ADI, Nokia ..... $Call

Modem:

SupraExpress 33.6K Voice Fax Internal PnP $65
USR Sportster 33.6K Faxmodem Internal/External ..... $105/$155
USR Sportster 33.6K Voice Faxmodem w/Voice Internal $120
USR Sportster x2-56K Faxmodem Internal/External ..... $155/$195
USR Sportster x2-56K Voice Faxmodem w/Voice Int./Ext ..... $180/$215

Floppy Drive/Tape Backup:

Floppy Drive 1.44M 3.5"/Teac 1.2M 5.25"/1.44M 3.5" ..... $24/$45/27
Colorado 3.2GB T-3000 off floppy Travan w/Win95 Sftwre, w/tape $179
Colorado T4000S 8GB, 62MB/min, SCSI-2, Travan TR-4, internal, w/tape $359
Tape Cartridges for Tape Backup ..... $Call
Iomega ZIP Drive 100MB w/disk ATAPI IDE -internal $125
Iomega ZIP Drive 100MB w/disk SCSI-Internal/External ..... $149/$159
Iomega ZIP Drive Disks single/three/ten pack ..... $15/$40/$130
Iomega Jaz Drive 1GB w/disk SCSI-Internal/External ..... $299/$402
Iomega Jaz Drive Disks single/five pack ..... $92/$445
Iomega Ditto TapeBackup 2GB Insider Travan TR-1,2,3 ..... $145
Iomega Ditto TapeBackup 2GB Parallel External TR-1,2,3 ..... $188
Iomega Ditto TapeBackup 3200 Insider 3.2GB Tavan QIC w/o tape $205
Iomega Ditto TapeBackup 3200 Parallel Port 3.2GB Tavan QIC w/o tape $255
Iomega Ditto Tape Cartridge TR-1/TR-3/TR-4 ..... $32/$35/$45

Keyboard/Mouse/Software/Chassis/PowerSupply/Misc:

Mitsumi 104 Enhanced Win95 Keyboard $12
KeyTronic 104 Enhanced Win95 Key U.S. Made $21
Focus 2001 104 Win95 Key Enhanced Click w/Cover $33
Focus 6002 104 Win95 Key Enhanced w/ wristrest $30
Natural Keyboard SK-6000 Win95 Key Enhanced / with Touch Pad ..... $50/$70
MicroSoft Natural Keyboard Win95 Key $70
MicroSoft Ergonomic Serial/PS 2 type $30
Logitech 2-Button Mouse Serial/PS2 ..... $12/$12
Logitech Mouseman Serial+PS 2 Combo/Cordless ..... $30/$85
Logitech Trackman Marble $80
MS DOS 6.22/Windows V3.11/WFWG V3.11(w/System Purchase) $45/55/75
MS Windows 95 Full CD OEM version $90
MS Office Professional 97 CD version $325
MS Windows NT V4.0 Workstation $145
MS Windows NT V4.0 Server with 5 User Access License OEM $550
MS Windows NT V4.0 Server 20 User Access License (No Software) ..... $ 4[illegible]
GigiStar Series Full Tower AT 250W/ATX 230W ..... $1 [illegible]/$115
GigiStar Series Medium Tower AT 250W/ATX 230W ..... $[illegible]/$90
GigiStar Series Mini Tower/DeskTop AT 230W ..... $[illegible]/$55
Server Class Super Case w/250W PS w/ detachable front panel, Dual side door, solid construction, slide-in Drive Bay, Dual fans, lots of bays, Fits Full/Baby AT Size board, Medium/Full Tower ..... $115/$140
Server Chassis (T-101)/Disk Array Chassis (T-103): Dimension=13"x31"x22" w/Dual Redundancy & Hot Swappable Power Supplies:
- T-101:12 DriveBays/Upto 2 PowerSupply 2x300W, 2x4.6" Smart Fans w/ Efficient, Air Flow, Full Size AT Motherboard FormFactor $880
- T-103: 16 DriveBays/Upto 2 PowerSupply 2x300W, 2x4.6" Smart Fans w/ Efficient Air Flow, Perfect RAID Disk-Array Sub-Chassis $880

Server Chassis LT-18 By Axdon w/o Power Supply - Full-size AT, Baby AT, oversize AT based boards, 11 drive bays (one 3.5" and four 5.25" exposed, six 5.25" hidden bays), Twelve slots, "snap-in" drive rails, second cooling fans, accepts standard power supply, Dims: 26" x 10" x 24.5" $460
Server Enclosure KS-1400 w/ Dual Redundant Hot-Swappable 300Wx2 PS, Full-size AT, Baby AT, oversize AT based boards, 14-5.25" drive bays, Twelve slots, "snap-in" drive rails, 8 cooling fans, Dims: 20.5" x 16.25" x 23.75" (DxWxH) $990
Deluxe External SCSI Case w/Terminator+SCSI Cable+P/S+Fan 3.5" Half Height/5.25" Half Height ..... $60/$90
Deluxe External SCSI Case w/68Pin Wide/Ultra Wide SCSI Connector + P/S + Fan 3.5" Half Height with 68Pin External Cable and Terminator $150
Power Supply PS-2 Type 230W/250W/300W ..... $28/$35/$85
Power Supply ATX Type 235W/300W ..... $55/$85
486/P5/P6 CPU Cooling Ball-Bearing Fan w/heat sink ..... $8/$12/$25
Chassis Second Cooling Fan 3" or 3.5" $16
Printer Cable 6"/10"/15"/25" $5/7/10/16
PS/2 mouse port connector for motherboard PS/2 mouse port $10

CD-ROM Drive:

Toshiba XM-6002B 16X Speed Internal ATAPI IDE CD ROM $95
Mitsumi FX800 8X Speed Internal ATAPI IDE CD-ROM $70
Mitsumi FX1200 12X Speed Internal ATAPI IDE CD-ROM $105
Sony CDU511 16X Speed Internal ATAPI IDE CD-ROM $105
Panasonic CR585 24X Speed Internal ATAPI IDE CD-ROM $125
Toshiba XM-5701 12X Speed Internal SCSI CD ROM $130
Toshiba XM-3801B 15X Speed Internal SCSI CD ROM $150
Plextor 20-Plex 12/20XSpeed, 1800-3000Kb/sec, Fast SCSI2, 95ms seek, 512K Buffer, SCAM, w/Tray, PX-20TSI Internal $250
Philips CDD2600 SCSI-2 CD-ROM Writer 1MB Cache,2X record & up to 6X read, w/SCSI Controller, Corel CD Creator, 2 blank CDs Internal/External .. $490/$595
Yamaha SCSI-2 CD-ROM Writer CDR400TIPC 512KB Cache, up to 4X record & 6X read, Internal bare version w/Software $750

Sound Card/Speaker/Multimedia Package:

Yamaha, Altec, Lansing Speakers ..... $Call
60W/80W/120W Hi-Fi Amplified Stereo Speakers $15/30/55
Sound Blaster Compatible 16Bit ESS Stereo w/PnP,IDE port $30
Sound Blaster 16 PnP OEM $65
Sound Blaster 32 PnP OEM $80
Sound Blaster AWE64 PnP w/ IDE Interface Retail $125
Sound Blaster AWE64 GOLD PnP w/ IDE interface Retail $180
Audio Cable - CD-ROM to Sound Card $3

Hard Disk:

Western Digital - Caviar

1.2GB IDE WDAC21200 - Enhanced IDE Mode-4 128KB 5200RPM $169
1.6GB IDE WDAC21600 - Enhanced IDE Mode-4 128KB 5200RPM $185
2.0GB IDE WDAC22000 - Enhanced IDE Mode-4 128KB 5200RPM $202
2.5GB IDE WDAC32500 - Enhanced IDE Mode-4 128KB 5200RPM $218
3.1GB IDE WDAC33100 - Enhanced IDE Mode-4 128KB 5200RPM $242
4.0GB IDE WDAC34000 - Enhanced IDE Mode-4 256KB 5200RPM $335
2.1GB Ultra SCSI-2 Enterprise E2170-3 512KB 7200RPM $540
2.1GB UltraWide SCSI-2 Enterprise E2170-7 512KB 7200RPM $565
4.3GB Ultra SCSI-2 Enterprise E4360-3 512KB 7200RPM $715
4.3GB UltraWide SCSI-2 Enterprise E4360-7 512KB 7200RPM $775

Quantum

2.1GB FireBall ST32160A EIDE UltraDMA 10ms, 5400RPM $205
3.2GB FireBall ST33240A EIDE UltraDMA 10ms, 5400RPM $260
4.3GB FireBall ST34320A EIDE UltraDMA 10ms, 5400RPM $340
6.5GB FireBall ST36480A EIDE UltraDMA 10ms, 5400RPM $495
2.1GB FireBall ST32160S Ultra-SCSI 10ms, 5400RPM $265
3.2GB FireBall ST33240S Ultra-SCSI 10ms, 5400RPM $350
4.3GB FireBall ST34320S Ultra-SCSI 10ms, 5400RPM $395
6.5GB FireBall ST36480S Ultra-SCSI 10ms, 5400RPM $565
4.3GB Atlas II XP34550N Ultra SCSI-2, 8ms, 7200RPM $730
4.3GB Atlas II XP34550W Ultra Wide SCSI-2, 8ms, 7200RPM $745

Seagate

2.15GB Barracuda 4LP ST32171N Ultra SCSI-2 50pin 7200RPM, 512K $525
2.15GB Barracuda 4LP ST32171W Ultra Wide SCSI-2 68pin 7200RPM, 512K $530
4.35GB Barracuda 4LP ST34371N Ultra SCSI-2 50pin 7200RPM, 512K $780
4.35GB Barracuda 4LP ST34371W Ultra Wide SCSI-2 68pin 7200RPM, 512K $795
4.55GB Cheetah AV ST34501N Ultra SCSI ST34501N 7.5/8.5MS, 10000RPM ... $1025

MicroPolis

4.5GB TomaHawk 4LP 4345NS Ultra SCSI-2 50pin 7200RPM, 8ms, 512K $885
4.5GB TomaHawk 4LP 4345WS UltraWide SCSI-2 68pin, 7200RPM, 8ms, 512K .. $895
9.1GB TomaHawk9 3391NS Ultra SCSI-2 50pin, 7200RPM, 8ms, 512K $1240
9.1GB TomaHawk9 3391WS Ultra Wide SCSI-2 68pin, 7200RPM, 8ms, 512K ... $1260

Fujitsu

4.4GB M2954 UltraWide SCSI-2 68pin 7200RPM, 8ms, 506K Cache ..... $70[illegible]
9.1GB M2949 Ultra Wide SCSI-2 68pin, 7200RPM, 8ms, 506K Cache $1260

PC UPGRADES & SERVICE WELCOME! OUR TECHNICAL EXPERTS CAN TROUBLESHOOT YOUR PROBLEMS SUPER FAST!

UMiracle Microsystems

- NetWork Design Layout
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- Server/Client Setup/Customization
- WAN/LAN Connectivity
- Internet/Email Connection
- Equipment Setup/Customization
- Software Design/Installation
- Power and Data Protection
- User/Administrator Training
- Expertise Technical Support
- Maintainence Contract

5 + Peer2Peer Network Solution

- *FIVE ASUS TX97 AMD-K5 166MHz WorkStations w/Licensed Windows 95*
- *FIVE Intel EtherExpress 100BaseT PCI Network Interface Adapters Installed*
- *Up to 500' Catalog-5 100BaseT UTP Cabling (InWall w/ Plates - 5 Nodes)*
- *10BaseT 8-Port Hub*
- *HP LaserJet 5 Printer*
- *OnSite Windows 95 Peer to Peer Network Resources and Printer Setup*

Recommended Options:
- *100BaseT 8-Port Hub*
- *Internet Access + EMail Solution*
- *Network User + Administrator Training*
- *3 Month 8-Hour Response Service Maintainence Contract*

(See Previous Pages for Workstation Configuration Details)

$7764.00
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For As Low As
$178.04 Per Month 48 Months

10 + ONE Network Solution

- *TEN ASUS TX97 AMD-K5 166MHz WorkStations w/Licensed Windows 95*
- *ONE Intel Venus P6 Pentium Pro 180MHz File Server w/10 User Licensed NT4.0 Server*
- *ELEVEN Intel EtherExpress 100BaseT PCI Network Interface Adapters Installed*
- *HP LaserJet 5N WorkGroup Printer w/10BaseT Connection to Server*
- *3COM 3C250 12-Port 100BaseT Stackable Hub*
- *APC Smart-UPS VS420 Un-interruptable Power Supply w/ Setup*
- *Up to 1100' Catalog5 100BaseT UTP Cabling (InWall w/ Plates - 11 Nodes)*
- *OnSite Windows NT WorkGroup Network Resources and Printer Setup*

Recommended Options:
- *Internet Acces + EMail Solution*
- *3 KeyStroke Recovery Backup Solution*
- *Fax Server Solution*
- *Network User + Administrator Training*
- *6 Month 8-Hour Response Service Maintainence Contract*

(See Previous Pages for Workstations and Server Configuration Details)

$18728.
Equipment BusinessLease*
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MIS guys, we know you are tired! Your company depends on your network and your network depends on you! You are paying your consultant to experiment with your hardware! Your hardware provider is claiming your problem is software related but your software vendor says it is not! And your BOSS is pulling your hair!

You thought it was easy? Wish you have known the compatibility problem for your non-returnable purchase? Wish your consultant have known it all?

Don't you know consultants come to UMiracle when they need help? Don't you know you can save money by skipping your VAR? Don't you know you can sit back and relax if UMiracle provides you a complete, hassle-free vertical solution?

20 + ONE Network Solution

- *TWENTY Intel Tucson w/Audio Pentium 166MHz WorkStations w/Licensed Windows 95*
- *ONE Intel Providence PentiumPro File Server w/ One PentiumPro 180MHz CPU w/25 User Licensed NT4.0 Server with Dual 100BaseT PCI NICs each connected to 100BaseT hub for double thoroughput*
- *TWENTY-TWO Intel EtherExpress 100BaseT PCL Network Interface Adapters Installed*
- *ONE HP LaserJet 5M WorkGroup Printer w/10BaseT Connection to Server*
- *TWO 3COM 3C250 12-Port 100BaseT Stackable Hub*
- *APC Smart-UPS VS650 Un-interruptable Power Supply w/ Setup*
- *Up to 2100' Catalog5 100BaseT UTP Cabling (InWall w/ Plates - 21 Nodes)*
- *OnSite Windows NT WorkGroup Network Printer and Resources Setup*

Recommended Options:
- *Internet Acces + EMail Solution*
- *3 KeyStroke Recovery Backup Solution*
- *Fax Server Solution*
- *Network User + Administrator Training*
- *6 Month 8-Hour Response Service Maintainence Contract*

(See Previous Pages for Workstations and Server Configuration Details)

$43280.
Equipment BusinessLease*
For As Low As
$1009.00 Per Month 48 Months

40 + ONE Network Solution

- *FORTY Intel Venus Pentium Pro 150MHz WorkStations w/Licensed Windows 95*
- *One RAID-5 Dual PentiumPro 200MHz-256K File Server w/45 User Licensed NT4.0 Server with Adaptec ANA-6940 Quad 100BaseT Port PCI Adapter for quadruple thoroughput*
- *FORTY Intel EtherExpress 100BaseT PCI Network Interface Adapters Installed*
- *ONE HP LaserJet 5SiMX Departmental Printer w/10BaseT Connection to Server*
- *FOUR 3COM 3C250 12-Port 100BaseT Stackable Hubs*
- *APC Smart-UPS VS1000 Un-interruptable Power Supply w/ Setup*
- *Up to 4100' Catalog5 100BaseT UTP Cabling (InWall w/ Plates - 41 Nodes plus Wiring Rack)*
- *OnSite Windows NT WorkGroup Network Printer & Resources Setup*

Recommended Options:
- *Internet Acces + EMail Solution*
- *3 KeyStroke Recovery Backup Solution*
- *Fax Server Solution*
- *Network User + Administrator Training*
- *12 Month 8-Hour Response Service Maintainence Contract*

(See Previous Pages for Workstations and Server Configuration Details)

$102866.
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What are those things? I'm not quite sure yet. But I'm working on it.

As I understand the food chain, you want to sell your product to people who want to sell to those TV watchers.

Short-term, I'm not just trying to build something just for "our current customer," which is the cable operator or the satellite operator. I'm thinking over the mountain, so everything I do for these guys short-term is inevitably going to get me to the household later.

At the end of the day, the household is going to determine the success of this thing. That's out yonder. I can't get to them unless I do prong one—the cable operator, the satellite operator, the advertiser, the content developer.

Here's the situation I inherited:

"Hi, TCI. I've got this great product called OpenTV and I want to show it to you."

"Hold on, Mitch. What content developers and advertisers are you bringing in with you? Do you have some really cool dudes?"

"Well, we're starting to talk to them but we don't have anything yet."

"I'll tell you what, Mitch. Why don't you come back when you have those guys in your back pocket."

"Oh, OK, I'll be back."

Now I go see the advertisers and the programmers, the ESPNs, the Discovery Channels, the NBCs, the Coca-Colas, the Eddie Bauers and so forth.

"Hi guys, I'm from Thomson Sun. I'd like to talk to you about OpenTV."

"Oh great, we've kind of heard about you. What's your distribution? How many millions of subscribers can you see today?"

So around and around we go.

If we don't kickstart this business ourselves, and provide some leadership, if we to go out in the marketplace and say to people "Let me describe to you what our vision is and what we see in these applications. We see a blue background with a red ball..."—you see the eyes glaze over because the people you're talking to either don't have the attention span or the imagination to understand what you're talking about.

We're in that environment today because of all the concern about interactive TV, because of all the concern about what happened with Time Warner, Viacom-GTE, all that—"interactive TV doesn't work. People don't want it."

They've trialed 4000 homes here, 400 homes there, and the economic model obviously doesn't play out in 400 or 4000 homes. You're talking about a mass audience, and nobody's done it in mass yet, because they're afraid to put their total market on because there's been a lot of money involved in developing all this.

For this French Open application they offered five different channels of tennis—they had cameras on five courts. For 29 French francs, approximately $5, you could subscribe to this pay-per-view event. You would be able to go in and switch between the channels, watch any of the different matches. They had this interactive application that had individual match statistics, and it also had a tally board so you could see what the matches were during the day and what the scores were from each match. It was very nicely done.

I'm in an environment where I need to show them. Based upon my research, my experience in doing things with pay television over the course of time, and my instinct, because that's all I've got now—this is an industry that does not exist.

There was a company that came through here about a week ago that said "Mitch! Can you give me a list of all your applications and the pricing and when I could pick these things up? Like I could just reach up off a shelf and pull one from here, and I'll take the news one there, and I'll use the music one today..."

I said, "Hold it. These things don't exist!"

I feel like I'm back at HBO and this is 1970. There are all these naysayers. "You can't put a movie in the home, uncut and commercial free—no one will buy a movie!"

That's this. This is beyond the imagination. You have to show people. There has to be an economic model that works. There has to be a return-on-investment model that you can show someone, that says "If you invest x amount of dollars in this settop box, by putting in flash RAM and RAM, to do these things that we're painting a picture for"—this Music Store, the Sports Store, the Children's Store, that's what we're calling these things—"if you do that, the $10 that you're paying for the box is going to be more than just a wash, because you're going to make $150 back on that $10 investment."

I really liked the Music Store—it was only playing audio with a still screen, but it also included information about what was playing, what record it was on, Click Here To Order, etc. That makes a long-needed connection between what you're hearing and how to get it, but how does it work?

EB: What you saw there was a prototype we've developed internally. There are a number of digital musical services worldwide—we've been talking with three of them already—that offer this audio track exactly as you've described it, with no information. I don't know what I'm listening to, I don't know who the artist is...

Muzak-type stuff.

Right. DMX has a very big service they run over TCI; Music Choice...

This is something we looked at—what the current service is today. We know that there are advertising opportunities; obviously there are retailers that would love to be able to reach out and have subscribers contact them and place orders based on what they're listening to. From a subscriber standpoint, how many times have you wanted that information on what you're listening to?

There's no doubt that it would be a valuable service to the subscribers. Also, from a merchandising standpoint, the labels put a lot of effort into making each artist a brand unto themselves. The music is only one piece of the merchandise they offer—how many concert t-shirts, hats... If you open a CD today and open the notes, you're going to find a very broad range of merchandise that you can purchase based around this artist as a brand.

This technology can open the door to that whole pool of merchandise, from a subscriber's standpoint. We think that is a very lucrative economic opportunity. What Mitch has joined us here to do is try to work with people in the industry and try to use his merchandising background and knowledge of the way the cable operator thinks, the way the subscriber to those services thinks, and put together models that make it interesting from an economic standpoint to deploy this technology in those services.

Can you point to anything currently in the US that's generally familiar and using your technology , or is it still too early? *continued on page 122*

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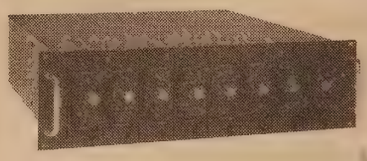

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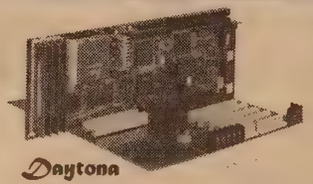

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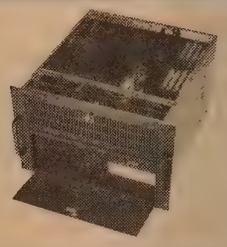

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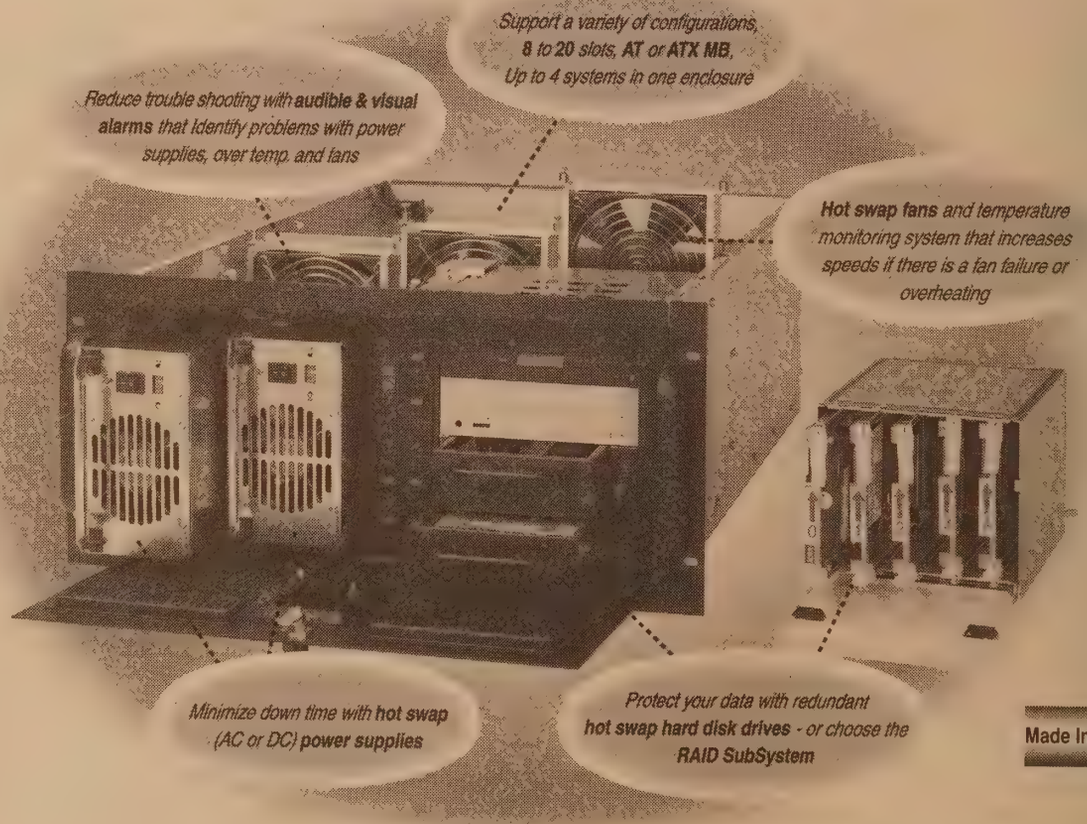
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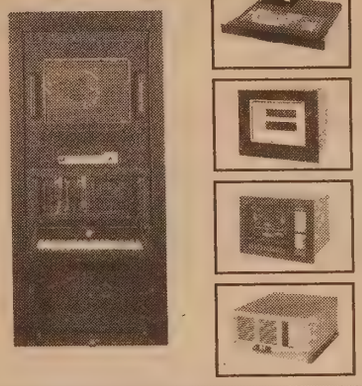

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It's still too early.

Unfortunately over the past two years we had some very close relationships, and were very close to deploying the technology, with some of the alliances that didn't make it. It's been a frustrating situation for us because we come very close to introducing the technology in the US marketplace, and just were not in the right place at the right time to get that done.

We still have plans and hopes to deploy the technology locally, but today we're really focusing on expanding our base in Europe, where we have a number of networks all lined up. The goal of the business today is to deliver effectively and make those networks successful, and to continue to look for opportunities, in the US and Asia as well.

What are the differences in infrastructures in your various markets, and how do they affect what you're doing?

The infrastructures aren't so different. The back channel infrastructures are different depending on what type of network and what country you're in. The modem technology may be different, but it's something we've been able to deal with in software. There's all these custom elements of the software to address specific market concerns.

If you're in a cable environment, you won't have the telephone back channel that you would on a satellite environment. The way pay-per-view events work on a satellite system is, you'll order the pay-per-view event by pushing a button on a remote control, and that event is stored as a transaction locally in your decoder. Then at a later time it accesses your phone line and uploads to the network that you have watched this movie at this time and this amount should be added to your bill.

In a cable environment you don't need a telecommunications back channel—you can go right back over the cable, assuming you have a bidirectional cable infrastructure.

We deal with those types of issues.

Certainly the language issues have been some of the more challenging things—you have to deal with Kanji, and multi-byte languages to address things like Arabic. This is something that all software companies deal with worldwide; I don't think it's really out of the ordinary. The networks themselves are very consistent in that they rely on MPEG2 as their primary transport technology. That sets a common base.

Also the architecture of the settop boxes that receive the information is very common. There are some companies that have very high market share of the components that are in those boxes, so we see a lot of consistency worldwide in what's being used to receive the digital transmission. It makes our lives easier.

At another level—in the US you have a whole bunch of private companies that compete with each other in this arena. In France, for example, you have a national telephone company that's run by the government. Is it easier to deal with a government monopoly than a bunch of corporations?

Just different. There are probably more policy and regulatory issues and regulatory approvals that are required when you do business in the European Community, for instance. In the US, the FCC sets out some guidelines and companies are pretty free to compete. If you have your license you can go do things your own way. I don't think there's the same rigorous review of who you're strategically aligned with and who's investing in who to the same degree that there is when you're doing business in the European Community or when you're dealing with a state-owned telecommunications company.

At the same time, the state-owned telecommunications companies have been very decisive in moving forward. And when they do, given their monopolistic position, they're really able to push forward on standards, because they've got the clout.

The in-country environment is usually less competitive.

So tell us about the service you've got up and running in France.

We ran a special for the French Open last week—the network developed a nice application themselves, and broadcast it during the French Open. We're pleased to see more and more of the applications being developed and the systems being utilized.

The network is rolling out something in the neighborhood of 30,000 decoders, signing up that many subscribers, per month. They're very pleased with the progress they've made.

For this French Open application they offered five different channels of tennis—they had cameras on five courts. For 29 French francs, approximately $5, you could subscribe to this pay-per-view event. You would be able to go in and switch between the channels, watch any of the different matches. They had this interactive application that had individual match statistics, and it also had a tally board so you could see what the matches were during the day and what the scores were from each match. It was very nicely done.

They gave you a map of all the services so you felt like when you were paying this 29 francs you were getting a variety of services. You really felt like you were subscribing to an *event*, more than that you were just going to watch one specific thing.

I think that's part of the vision that we have here, creating that additional value.

One of the key applications that's extremely important to any of the networks is the electronic program guide. We're currently developing a next-generation for them.

How does it differ from, say, Prevue Guide?

The presentation of guides in the EC is quite different than in the US. In the US they're presented in a grid kind of fashion; they're published in all the newspapers, *TV Guide*, etc. Even the electronic program guides run in typical grid fashion.

If you look at the marketing materials of the guides that are distributed in the EC, what you'll see is more of a multimedia listing, and being really pushed and encouraged to watch a particular program at a particular time. So you'll see a listing by channel of what's on, but you'll also see a promotion where they'll pick an image and describe a program and encourage you to watch that particular program.

Are those paid advertisements?

They can be, and that's the nice opportunity for the advertisers on that show, and also the producer of the show.

We see that difference being translated to the screen, so rather than just presenting a simple grid in TPS-EPG , what you see is a theme-sort you can go through, and then an extended listing. You'll see two still images from two different programs, for instance, on any page at any given time. So instead of looking at a grid with a lot of blocks you go through to select, what you see is a listing by hour on one side and multimedia images saying this program is on at this particular time. It's a friendly, engaging, graphically rich presentation to the subscriber.

Being able to change the look and feel of that application is one of the things that our technology makes possible for these networks. That guide is extremely important, as the primary interface to the subscriber for all the services, encouraging that subscriber to purchase pay-per-view events, which again are tremendous income-generating activity and service on these networks.

So the flexibility allows the satellite companies to do custom merchandising to their particular subscriber base.

That's exactly right.

Again, the French Open is a very good example. Here's a pay-per-view event. Being able to take still images from the French Open and pre-

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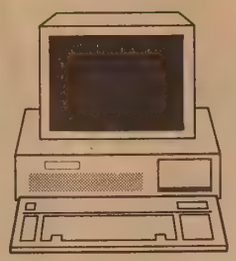

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sent them onscreen and mix them in different forms and fashions, make it extremely appealing to tune in to this event—and pay that network an additional five dollars that month—is extremely valuable.

That has been the primary application where we've seen all of our networks focused. They know that the gateway to the consumer, to the subscriber spending those dollars and subscribing to those services and watching those pay-per-view events, is this electronic program guide.

They know that this is something that's going to evolve over time; given the history of experience relating to their consumers with the guide, they may want to change the functionality. They may find a way to better encourage, or to make it easier to use for the subscriber. You want to have a technology that allows you to replace that guide and upgrade it over time—instead of today's model, which is, "I create it once, I store it in read-only memory, I store it in the box and it's shipped from the factory, and it's that way for the life of the device." Our technology allows you to change that look and feel and presentation.

From the consumer standpoint, what kind of device are you using to interact?

Just a regular television-style remote control.

I had heard that in the case of one of the trials, users had a lot of trouble because the controller was too complicated, and since people notoriously couldn't program their VCRs, this was a problem.

I think that's generally true. If you look at the consumer electronics industry and the game industry, we have seen a particular interface become predominant. It's a star configuration—up, down, left, right, and a select. Nintendo, Sega, Sony Playstation—they all use that same kind of configuration. It's easy to use and it allows you to interface tactilely instead of visually.

What you want the subscriber to do is look at the screen and intuitively know which button to press, be able to tell tactilely, without having to look at the device they're interfacing with. That basic navigation system is embedded in all these remote controls, and it's the basis of how these devices receive input from subscribers in the home.

What applications are being built?

There are a lot of different markets in the applications area—let me go back to the French network and then expand on it.

Some of the things that they're interested in are allowing you to access your horoscope, for instance. Allowing you to purchase a lottery ticket. Allowing you to get a local weather report.

How much of that is next-generation Minitel?

That's exactly what it is. Minitel is there with 17,000 different services, and you can probably point to fifty or 100 that are most frequently used. I think we'll see those fifty or 100 migrate onto this more sophisticated platform, where instead of having this little Minitel terminal now you'll have a graphically rich video environment in which to do these things, and add more value to the service, and hopefully drive more subscribers to use the service.

They're looking for horoscopes, they're looking for tidbits of news—they've developed 17,000 different niches that they've been able to attract subscribers to use. I think this is something we're seeing on a worldwide basis, it's just different market by market depending on the culture. In the US, I doubt we're going to have a gambling service.

The regulatory issues will kill you.

Right. But if you look at some of the Asian countries where they don't have the same type of regulatory issues, they're very interested in having gaming services available.

In terms of online types of gaming service, I guess the Sega Channel is a good example of what's possible with similar types of technology. You can use this digital stream to download games over the network—

You can't use it to play against other people, but you can use it to play against the computer.

Right. That would be a matter of interfacing this device in the home to a game device, and being able to use it as a pipeline to feed games into it. It's very doable—Sega is already doing it in analog cable system environments today, and digital environments are easier to do.

Anything where there's a desire to have input from the audience—town hall meetings, anything where you want viewer response. In the advertising realm, you want viewer response. How many times are you watching the news, and they have 800 or 900 numbers that you can call in—they're polling the audience on various issues.

To be able to do that online instantly, without having an additional charge for it, would be interesting. I think it's an opportunity for advertisers to sponsor those kinds of things. The depth of the applications is really only limited by the imagination of what people want to do with the programming.

So I'm in Oakland. Cable Oakland is a subsidiary of TCI, and we don't even get MSNBC. When are we likely to see something like this?

MB: It'll come with time.

EB: There are a number of things happening. There's an evolution going on in the marketplace. All the cable systems will eventually upgrade.

One of the things that's very clear on a worldwide basis is that consumers are willing to pay for choice. MSNBC is a good example of that—today you have thirty or forty cable channels, and if they invest the dollars to upgrade their infrastructure, to make it a digital platform, they'll be able to offer you 200 channels. And you likely will wind up paying more money to get access because there's going to be some subset of that 200 that you're interested in receiving and don't get today.

MB: The caveat, and the key to what you've said, is not so much the choice in terms of sheer numbers. The problem today in cable and satellite, in terms of the offerings of 150 or 200 channels, is the quality.

That's where we're breaking off. Everything we do here is high quality, broadcast-TV-quality, stuff.

If we just go out there and do *stuff*, that looks like the Internet. We lose, because who is watching? These are people who are used to seeing a certain quality look and feel on their television set. These are not people who are used to seeing Internet look.

I could be completely wrong, but in my heart I'm a television watcher. I grew up in the television generation. I expect a certain quality when I turn on the TV set—that look and feel has got to be part and parcel of everything we do.

Elliot's right, people want choice. But they want *quality* choice, particularly right now. They're anteing up a lot of money for DirecTV. Most of them are buying the sport packages; a lot of them are buying into the pay-per-view movie deal. The quality of the channel offerings is critical for the survival of cable and satellite. If it's not there, the consumer's no fool—they're not going to pay for something they don't want to watch.

But you are not content providers per se, you sell tools to content providers? Or you develop prototypes to show content providers what's possible?

EB: One of the things that we've recognized—I've been dealing with this issue for about two years, and it's a big part of the reason we brought Mitch in to complement the team that's here—is that networks don't need our technology. Networks don't need to be interactive. Networks need to be educated about the value of being able to deploy additional interactive services.

Without being able to go in and demonstrate a vision for what some of those services could be, and also to demonstrate an economic

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model behind those services, we have a worldwide community that doesn't really understand what is the return on investment. If I invest in the technology, if I work with the programmers and help them develop interactive content to run over my system and I make that available, how much money do I make, and who do I make it from? How does this work?

We have our operators worldwide saying, "Why? Why are we going to use the technology? How are we going to get our money back?"

In order to answer that we have to go through the analysis. We're on the road, we're going out, we're meeting with content developers, we're having to find the retailers that are supporting the merchandising opportunity. We're having to provide the relationship with the electronic commerce providers that bring all these systems together to enable you to look at something onscreen, get more information about it, and place an order.

As we go out and create a few of those demonstration applications to demonstrate what's possible, we're also learning that we can leverage that into creating some content that we bring along to jumpstart the industry.

We don't have designs to turn this from a technology company into a content company. But we recognize that there's an opportunity to go in and say, "Here's the technology, and here's a suite of applications that add value and have a clear economic payback for using the technology. Start your network with this, and then we'll support all the third-party developers and all the other things that are possible with the technology by providing all the tools and support that's required."

We've been asked worldwide by our operators, "Show us how." And we're stepping up, and it's actually opening an opportunity for us, to have a content component of our business that complements the rest of the business. Also, having the experience in developing a small subset of content will enable us to continually improve the technology. If we try to push the technology to do more and the application side of the business tries to enable more services, we can continually upgrade the system.

So is this kind of analogous to where Apple was when it launched the Mac, where they had to have MacWrite and MacPaint to show what the machine could do? And then they had the evangelists going out and saying, "Hey, you could make something even cooler?"

Exactly!

So say I'm a content provider. What's in it for me to work something out with you guys?

The problem today in cable and satellite, in terms of the offerings of 150 or 200 channels, is the quality. That's where we're breaking off. Everything we do here is high quality, broadcast-TV-quality, stuff. If we just go out there and do stuff, that looks like the Internet. We lose, because who is watching?

MB: Remember, this doesn't exist. There is no framework for this, there are no rules to this.

And next week it will all have changed!

Right. So as of this afternoon at 2:12, I've got five things that I can pull off my shelf that we in-house here have used to kickstart the cable operator: "I have partnerships, cable operator, with a number of different independent producers. Some do games, some do weather channels, some do shopping malls—it runs the gamut. Anything you can think of. We, OpenTV, have partnered up with a number of independent producers who have produced various elements in our OpenTV foundation software. So you have a mall that has four anchor tenants in it, that we provided to you, to kickstart you to get going. The rest of the stores are empty in there—you want to fill it up? Here's our list of approved OpenTV producers. If there's anything on that list you like, check it off and give it back to me, and we'll make sure they are delivered."

You, the producer, are incented to do this deal because we will take you and your content around the world with us wherever we are, and sell you as part of a suite of packages. We would revenue-share with you, the producer. We act as your distributor.

Just like HBO goes out to independent producers to create the HBO Movie of the Week, these independent producers basically go through us, and we're a channel for them. Where the quality of what goes out under the OpenTV brand name is critical, it'll be controlled by somebody who's running our programming division, and it has a certain look and feel that's been approved by OpenTV; it won't crash, it's been tested and all that. And out it goes, perhaps on a pennies-per-subscriber-per-month deal. They are paid by the operator for carriage of that particular service.

EB: There's an interesting dynamic here. One of the things that this video environment does is slice people by demographic. Based on what you're watching, we know something about you as a viewer. If you're watching outdoor fishing, we're not going to try to sell you Ginsu knives. If you're watching the Home and Garden television channel, we're not going to try and sell you sports merchandise.

So if you're a content provider and you ask what's in it for you—I wish it were that easy for us to say there's a model. But it depends on who your audience is.

If you're a content provider that programs a financial channel that talks about the stock market, your subscriber, your viewer, is probably affluent, well-educated, has funds in the stock market and has funds in mutual funds. So if I'm a company that runs a mutual fund and I have an opportunity to get your name onto my list and bring you into my fund, you're worth a tremendous amount of money to me. You're worth hundreds of dollars to me.

If I'm selling those Ginsu knives, or the rolling paint thing, or the window washer, my margins are entirely different. You're not worth as much to me as you are to the car company or the mutual fund company.

So therefore the economic model and the relationships are different depending on what the content is. There's the opportunity to advertise, there's the opportunity to sell merchandise—but you have to take a look at what are the costs of building out the infrastructure, and you have to take a look at the margin structures of the different businesses, depending on who's watching at the end. You have to come up with a model that's economically viable and interesting, and has enough margin in it for the cable operator to take a slice, for you the producer of the programming to take a slice—and our company would like to benefit from being in that relationship also!

So conceivably from a content developer standpoint, they probably already have a pretty good little niche going in other media and this is just an extension of it?

Take the Music Store, for instance, as an application. There are digital music services that typically have somewhere between twenty-five and forty different channels, by genre, of audio that you can tune in to, and you get a blank screen. Now if I had the opportunity to fill up that screen as you've seen in the demonstration, I have an opportunity to

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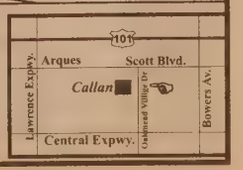

advertise, so I can sell advertising; I have a merchandising opportunity, where I need to tie in with a retailer.

Okay, I need a relationship between a retailer and myself as a producer, and I need to be able to create the application. I need to be able to take a look at the margin structure and the fulfillment structure of shipping a CD to a subscriber's home, and I need to see how much money I make in this process. How big is the pie, and what's the appropriate way to divide it up?

If I'm selling t-shirts or other types of merchandise, mutual funds, the size and the shape of the pie is different. In the end we know we have to play a role in bringing these different people together, and educating them on what's possible, how to make it work, and what's economically viable.

One of the things you hear a lot, especially as the Web has evolved so quickly, is that TV and print and a whole lot of broadcast stuff is traditionally very mass-medium, very much targeted at a fairly low common denominator, fairly broad. The Web came along and allows you to sell to markets of one. You seem to be taking the broadcast mass-market model and allowing it to do niches.

Yes. The video channels themselves carve the niches, but it's still a broadcast model, and there are still many people watching the same programming simultaneously.

I think there's a danger in believing that the only people that buy things are affluent people that have computers and are spending their time on the Internet.

I spent many years in retail, and that's a foolish assumption!

I spent many years in the consumer electronics business, and I know that there were a lot more people driving their pickup trucks to buy a 60" projection TV at $3000 than came with their Cadillacs or Lexuses.

Mitch and I see the market as a mass medium. There's a lot of different people out there, and we want to appeal to all of them, and in order to do that you have to do it in a simple, engaging and compelling manner.

MB: Which goes back to the full-service network. Omaha with US West, GTE in Cerritos—all the rest of them put on these trials, but they've never done a mass market. They've only done 4000 homes, 10,000 homes maybe.

Which isn't a big enough sample.

Right, the economic model doesn't work. I know that they know that the model works in a mass market; they were testing services to decide what services to roll out to the mass market; we're starting out in a different way.

At this moment, who do you see as your competitors, and what are the biggest challenges you're facing?

EB: Traditionally our competitors have been people like PowerTV, Microware, Wink, who are selling similar types of technology into a similar marketplace, the digital video broadcast marketplace. We've seen some of those competitors maybe retrench a little bit themselves as the market changed from '94 to '97, and the video-on-demand expensive settop box in the home hasn't really evolved.

The competitors have been pretty consistent; I don't know that any of the competitors have been as successful at building subscriber base as we have, so we feel very good about where we are today.

The biggest challenge we've had to face is education. Getting the market to understand what's possible, both technically and economically, and overcoming the stigma that was created by all the trials of interactive television. There were hopes and dreams and expectations that were set for interactive television that were unrealistic, and done very publicly. For us to come in today there's always a negative connotation when you talk about interactive television- "Oh, that wasn't successful."

It wasn't a matter of it wasn't successful—it was *very* successful. They tested out advance infrastructures, they tested out advanced services with subscribers, and came away with extremely valuable data that they will use for the next 20 years.

Back in 1945 somebody probably said, "Oh, television. It's a failure!"

Right. So it's really just a matter of time.

We don't believe that the Internet is the answer to everything. We don't believe that people are going to stop watching television and there will be computer terminals in every living room and that's the way you'll tune into television. The devices have to have a degree of simplicity that the Internet and the computing medium are not meeting yet today in order to reach the mass audience.

So I think one of the biggest challenges we've had is educating people about what's possible, why you want to do it, why it's good for you economically. Once we clear that hurdle with our operators, and once they start to see the things that are running on TPS in France—there's no doubt it's a better quality service than anything else that's being provided worldwide—I think that everybody will want to be competitive and want to offer the same quality. These operators don't like anybody getting ahead of them, no matter what country they're in. They never like to feel that they're behind the curve.

MB: Our problem is the propaganda between all of these "competitors"—they are not competitors with us in what I've described to you because they're not doing the same thing we're doing, from what I can tell. They have a different vision. But they are competing for the same piece of pie, seemingly, and our story hasn't been told.

We haven't exactly formulated how we want to go out and do that yet, other than to get the job done by actually getting up and running. Because we think that tells the better story.

Instead of wasting our time trying to throw barbs back and forth in the media and having PR conferences and announcements every day of the week, we're actually doing something that's real, that's up, that's deployable today, now. This isn't some dream, it's not some thing that's going to be done next month, it's going on in France as we speak.

My biggest challenge in that realm is to get the story told.

How big a problem is it that there are still warring standards in digital TV? Does it mean you can only sell to satellite guys?

EB: We can survive in any of the markets. Our technology is compatible with the underlying transport system that has been selected as the standard.

Now the question is, how will the market evolve going forward? There are a lot of people battling for the market space of "This is the interactive system that I want to be the standard." That's going to be a hotly contested political battle. I'm sure Microsoft is going to be in there very aggressively; Intel is involved in that, and then you have all the consumer electronics manufacturers who are not too excited about having people come into their traditional space and dictate the standards. So it's going to be very interesting to watch.

We don't have a lot of concerns; our course is to develop the system and try to get it as widely deployed as we possibly can on a worldwide basis and demonstrate that it works, that it's stable technology, that it's economically viable, that it adds value to the programming, that it adds social value to the industry, and just continue to promote the system wherever we can.

"Don't tell us what you can do, show us what you are doing." That's a much more interesting story. ■

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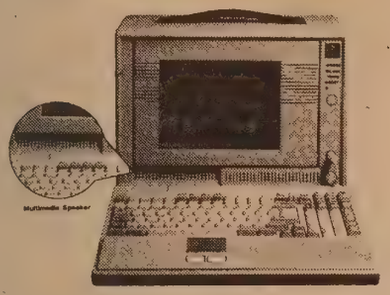

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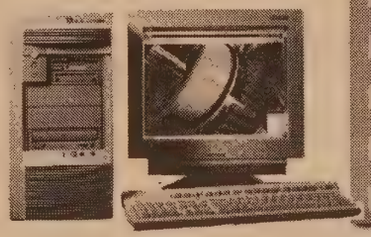

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Digital TV: The 2006 Problem

By Herb Mendelsohn

It's New Year's Eve 2006. You want to watch the ball drop in Times Square, but you can't! You don't have a converter or a $3000 HDTV set, so you're plumb out of luck. In nine years analog TV goes dark.

The broadcast industry is in a huge rush to meet its first deadline, less than 17 months away. By October 1998, they need to get at least three digital stations up and running in each major market. In terms of corporate network planning, 10/98 is only a moment away.

Questions And Opportunities

There seem to be more questions than answers right now. What will the Eye, the Peacock, the Alphabet, Fox, WB & UPN networks do to make Joe and Josephine Consumer plunk down a lot of money for a DigiTV?

The answer seems to be that no one's sure right now. We can rest a little easier knowing that the FCC will review consumer buying patterns every two years, and, if necessary, delay the death of analog until sufficient numbers of us are converted to digital.

The networks figure that most households will bite the bullet and get one High Definition Television (HDTV) for their main entertainment center in the next eight years. Thirty-seven percent of all households have more than three TVs, so the market for the converters, whether they come from Sears or your local computer store, should be robust—there will be special converters for PCs. Only one converter will work per set, unless all sets are tuned to the same station. They will probably range in price according to quality and capacity.

The converted picture may well be framed in a lot of black space, like a letterboxed art film on your VCR. Today's monitors and TVs are virtually square, with a width-to-height ratio of 4:3. The HDTV seventeen months from now will mimic your neighborhood multiplex screen with rectangular monitors, displaying a width-to-height ratio of 16:9. A boom for monitor makers! Invest, invest, invest!

Enhanced Offerings

Sports, sports, sports! is what Preston Davis, president of broadcast operations and engineering at ABC Networks predicts will be the first-utilized aspect of Advanced TV (ATV): "We have a huge opportunity for a new way to present information."

Imagine Monday Night Football—four times clearer. When John Elway breaks a sweat, you'll see the beads of perspiration and hear those crushing blows in SenSurround. There may be live buttons for our remotes to click on and scroll down to search for up-to-the-minute stats and links to each player's commercial Web page pushed on you by that player's highest-paying endorser.

The greatest challenge, Davis says, is to the creative artists. "The creative community has an opportunity to reinvent television." He contends that they are not yet focused on writing scripts utilizing the world of possibilities digital presents; while art used to be inhibited by the medium, now "technology is out of the way; technology is not limiting."

"What if someone wrote a book," he speculates, "which came bundled with a CD-ROM of moving visual images enhancing it. Then we would make the HDTV miniseries linking to the CD and novel."

The networks figure that most households will bite the bullet and get one High Definition Television (HDTV) for their main entertainment center in the next eight years.

Soon we'll be able to download broadcast programming to our hard drives—while I'm at the gym, I'm also downloading news, sports, weather and "The Simpsons;" arranging them according to my personality profile on my computer, and editing out the commercials (shhh... don't tell Procter & Gamble!) I suppose this will be easier then programming my VCR!

The possibilities are endless...

- TV-ready computers
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continued on page 143

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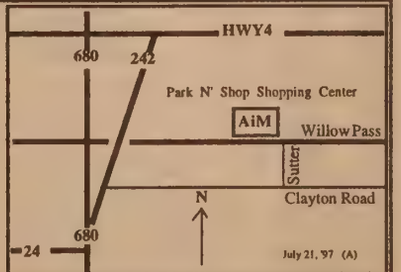

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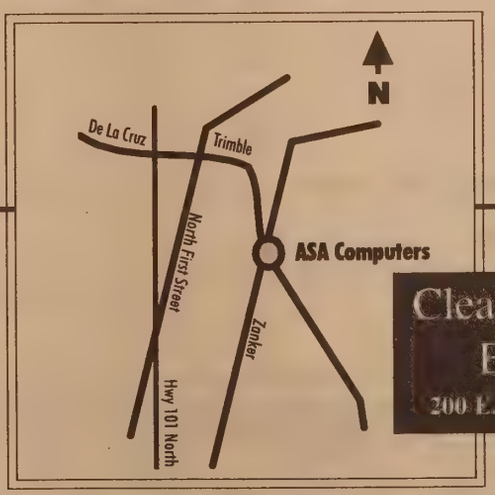

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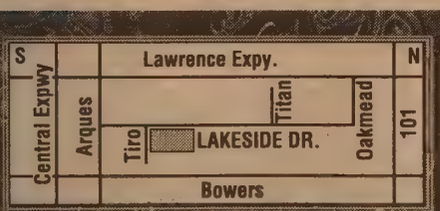

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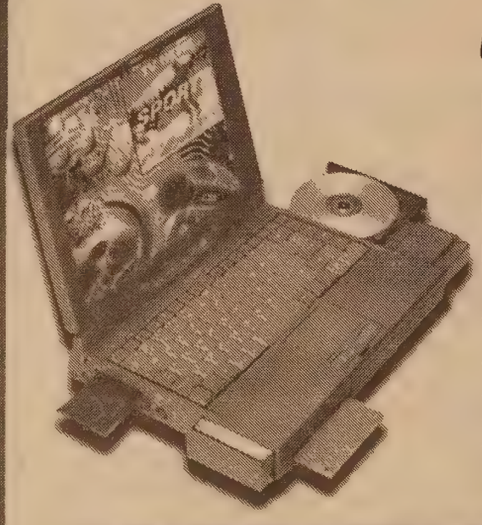

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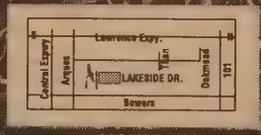

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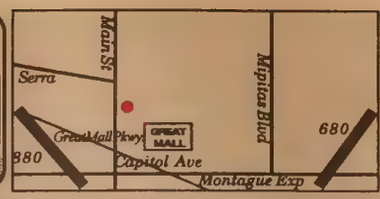

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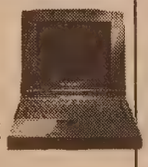

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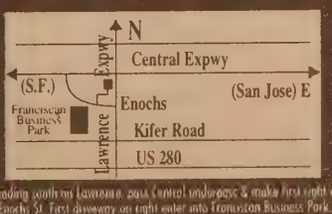

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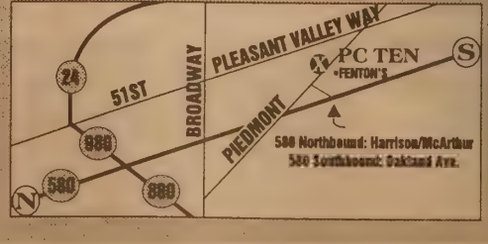

- On-screen links to Web sites during an episode of "ER," detailing the latest research on a heart condition which the actors are debating
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Spectrum Shuffle

Dennis Wharton, vice president of media relations at the National Association of Broadcasters, clarified some of the spectrum reallocation issues that will accompany the transition to HDTV, though he adds that the transition might not be the hoped-for gold mine for the feds. "The fizz seems to be out of spectrum auctions, based on April's disappointing auction," Wharton says from his Washington, D.C. office.

Once the transition to digital is complete, one-third of the spectrum will be given back to the FCC. Most will be auctioned to the highest bidders, probably the PCS and cellular providers. The leftovers, Channels 60 through 69 first, are for emergency, fire and police radio communications.

On New Year's Day 2006, here's what's in store for local stations:

San Francisco

Channel 4 KRON .....Channel 57
Channel 5 KPIX.....Channel 28
Channel 7 KGO .....Channel 24
Channel 9 KQED.....Channel 34
Channel 14 KDTV.....Channel 29
Channel 20 KOFY .....Channel 19
Channel 26 KTSF .....Channel 27
Channel 38 KCNS ..... Channel 39
Channel 44 KBHK.....Channel 45

Los Angeles

Channel 2 KCBS .....Channel 60
Channel 4 KNBC.....Channel 36
Channel 5 KTLA .....Channel 68
Channel 7 KABS .....Channel 8
Channel 9 KCAL .....Channel 43
Channel 11 KTTV .....Channel 65
Channel 13 KCOP.....Channel 66

The L.A. area is somewhat anomalous because the mountainous terrain and largely populated land mass introduce unique difficulties for the broadcaster. The digital signal is not as pervasive as analog. When it moves to Channel 60, KCBS will only reach 81.1% of the households, and KNBC will only reach 84.3%.

It is not clear whether cable will pick up the slack. Advertising for cable currently emphasizes cable's inclusion of local TV stations as a selling point against satellite providers, and the Supreme Court just ruled that local broadcasters must be included with basic cable.

According to Wharton, public television will not be rendered obsolete by the costs of going digital. The 300 or so public stations have an extra year to comply with the new FCC deadlines. ■

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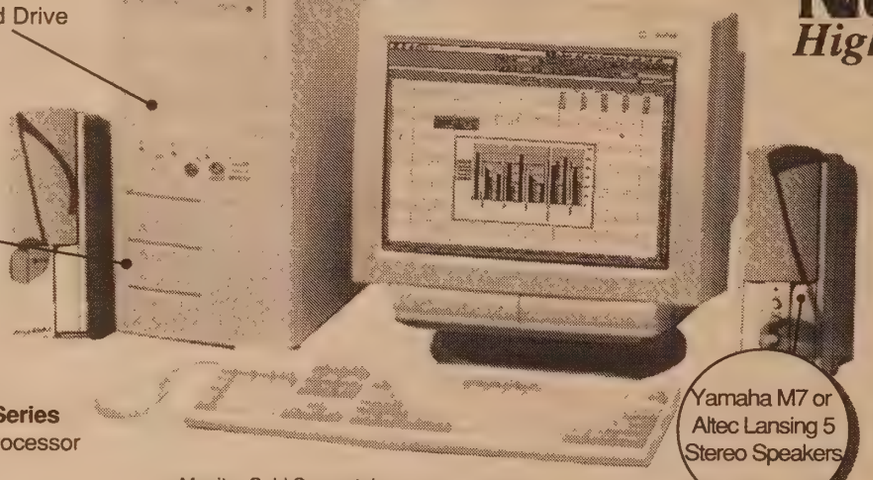

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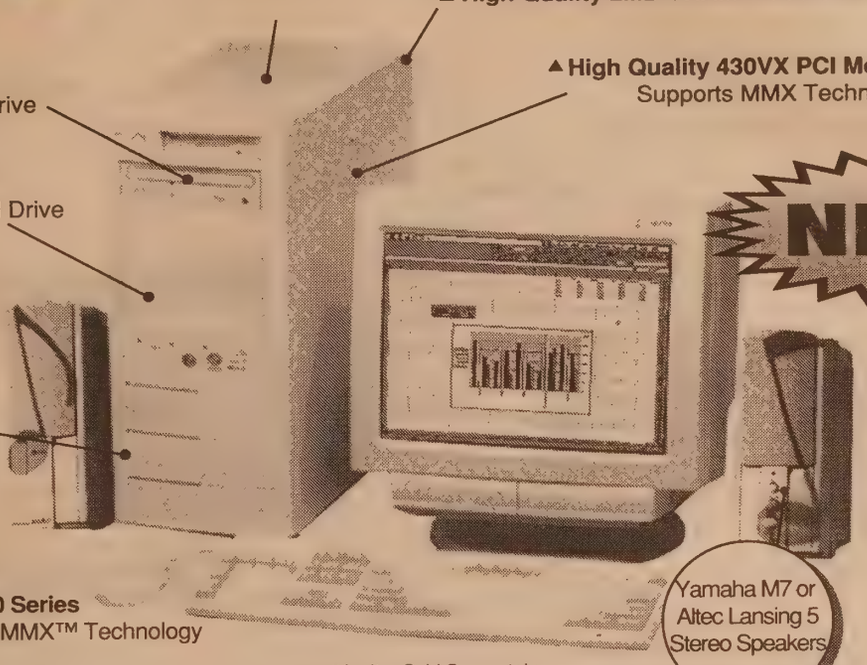

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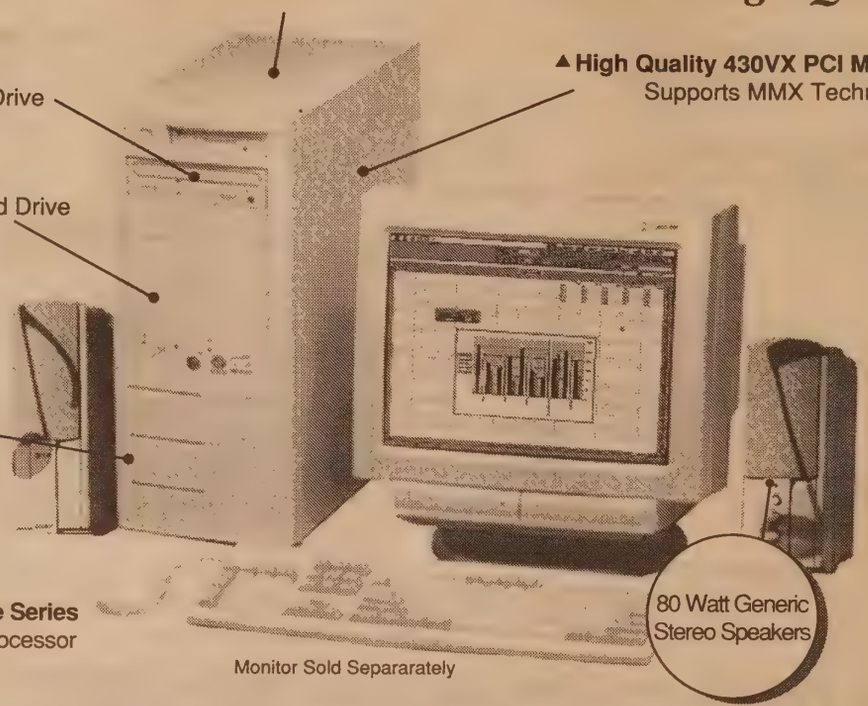

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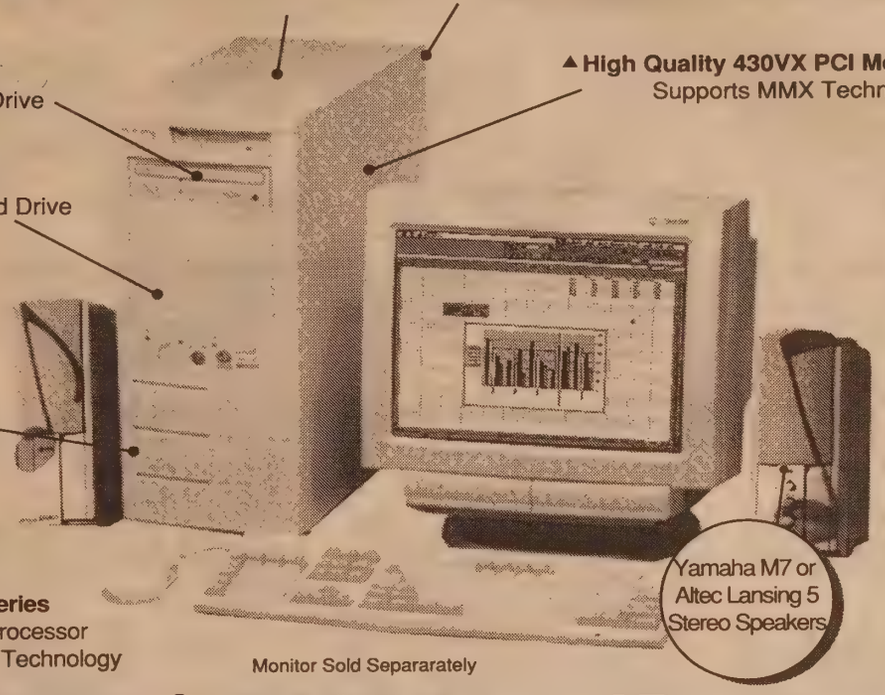

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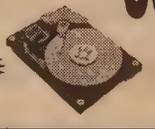

External SCSI Drive For PC
INCLUDES: • SCSI cable & terminator
$1139.95

Quantum™ 4.5GB Ultra SCSI 3.5" HARD DRIVE

- QM34550ALS
- 512K Cache
- 8ms
- 7200 RPM

$849.95

External SCSI Drive For PC or MAC
Tornado Series INCLUDES: • FWB Toolkit (MAC only) • SCSI cable & terminator
$949.95

FULL LINE OF NAME BRAND MASS STORAGE SCSI HARD DRIVES

MICROPOLIS 4.5GB Ultra SCSI 3.5" HARD DRIVE

- MC4345
- 512K Cache
- 7.9ms

$999.95

External SCSI Drive For PC or MAC
Tornado Series INCLUDES: • FWB Toolkit (MAC only) • SCSI cable & terminator
$1099.95

FUJITSU 9.1GB SCSI-II 3.5" HARD DRIVE

- 2942SYU
- 512K Cache
- 9.5ms
- 7200RPM

$1299.95

External SCSI Drive For PC or MAC
Tornado Series INCLUDES: • FWB Toolkit (MAC only) • SCSI cable & terminator
$1399.95

MICROPOLIS 9.1GB Ultra SCSI 3.5" HARD DRIVE

- MC3391
- 512K Cache
- 7.9ms

$1349.95

External SCSI Drive For PC or MAC
Tornado Series INCLUDES: • FWB Toolkit (MAC only) • SCSI cable & terminator
$1449.95

FUJITSU 9.1GB Fast Wide 3.5" HARD DRIVE

- 2949EAU
- 512K CACHE
- 3.5"
- 7200 RPM

$1399.95

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SAMSUNG Electronics

1.6GB IDE 3.5"X1" HARD DRIVE

- 31601A
- 11ms
- 128K Cache
- Enhanced IDE
- 3 yr. warr.

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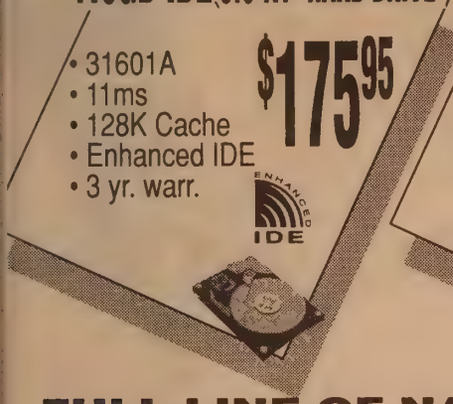
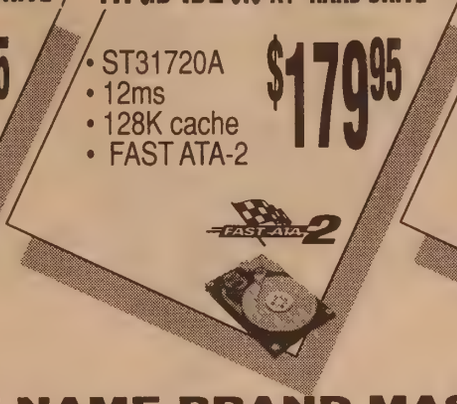


Seagate

1.7GB IDE 3.5"X1" HARD DRIVE

- ST31720A
- 12ms
- 128K cache
- FAST ATA-2

$179.95



SAMSUNG Electronics

2.1GB IDE 3.5"X1" HARD DRIVE

- 32100A
- 11ms
- 128K Cache
- 5400 RPM
- Enhanced IDE
- 3 yr. WARR.

$189.95

Seagate

2.5GB IDE 3.5"X1" HARD DRIVE

- ST52520A
- 11ms
- 128K cache
- FAST ATA-2

$235.95

FULL LINE OF NAME BRAND MASS STORAGE IDE HARD DRIVES

FUJITSU

2.5GB IDE 3.5"X1" HARD DRIVE

- M1638TAU
- 12ms
- 128K cache
- 5400RPM

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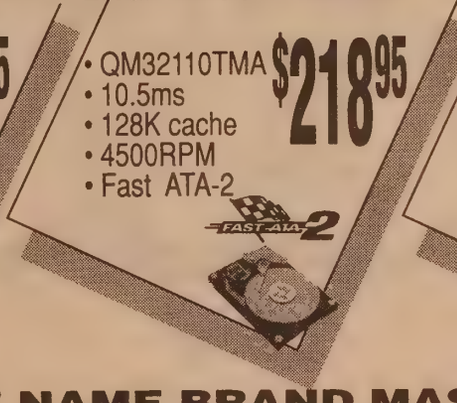
Quantum™

2.1GB IDE 3.5"X1" HARD DRIVE

- QM32110TMA
- 10.5ms
- 128K cache
- 4500RPM
- Fast ATA-2

$218.95



WESTERN DIGITAL

2.1GB IDE 3.5"X1" HARD DRIVE

- AC22100
- 12ms
- 128K cache
- Enhanced IDE

$209.95

SAMSUNG Electronics

2.4GB IDE 3.5"X1" HARD DRIVE

- 32501B
- 11ms
- 128K cache
- Enhanced IDE
- 3 year warranty

$218.95

FULL LINE OF NAME BRAND MASS STORAGE IDE HARD DRIVES

WESTERN DIGITAL

2.5GB IDE 3.5"X1" HARD DRIVE

- AC32500
- 12ms
- 128K cache
- Enhanced IDE

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WESTERN DIGITAL

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- AC33100
- 12ms
- 128K cache
- 5200RPM
- Enhanced IDE

NEW!

$259.95

Quantum™

3.2GB IDE 3.5"X1" HARD DRIVE

- QM33200TMA
- 10.5ms
- 128K cache
- 4500RPM
- Fast ATA-2

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Quantum™

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- QM33840TMA
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- .132MBytes/sec(33MHz) burst data rate across the PCI Bus
- Small form factor design fits in virtually all PCI systems
- Predictive Pipelining™ for greater throughput Lower CPU utilization in Netware environment
- Full duplex ethernet(FDE) capacity
- Self configured Design for Plug & Go operation
- Combo versions offer RJ-45,BNC, & AUL Connectors for UNI Cable connectivity

$89.95 Combo

NCA's High Quality Ethernet Combo ISA Adapter

E2000C

- UMC Chipset
- 16-Bit ISA Bus interface
- 10 Base T & BNC connectors
- Boot ROM socket
- Auto detect for 8/16-bit bus
- NE2000 compatible
- Jumperless
- Runs on Windows 3.11 & Win 95
- 5 year Warranty

$19.95

NEW

3Com Ethernet Combo ISA Adapter NEW

3C509-Combo

Plug & Play

- RJ-45, BNC and AUI connector for use in coax or 10Base-T networks
- Etherdisk diskette with Autolink software, drivers, and Diagnostics

$129.95

3Com Fast Ethernet 10/100 PCI Adapter NEW

Fast Etherlink XL-3C905TX

Plug & Play

- RJ-45, catergory 5 UTP
- Compatible w/8023u fast ethernet standard
- Plug & Play ethernet or fast ethernet installation

$109.95

16-Bit ISA-IDE Floppy & 250 Tape Controllers Card

GSI 21

- Support 2 IDE hard drives of any capacity up to 8.4GB
- Easy installation as on-board Flash BIOS auto installs IDE hard drives
- Flash BIOS accelerates IDE data transfer rates up to 95%
- Supports 4 floppy drives incl industry standard

$49.95

32-Bit VESA Extender For GSI-ISA Controllers

GSI 1645-V1

NEW

- Supports PIO Mode3 (11MB/sec) and Mode4 (16.7MB/sec) hard drives
- No need to reformat hard drive
- Compatible with all major operating software
- Allows mixing of old and new hard drives
- Compatible with EIDE & Fast ATA-2 drives
- Requires GSI 16-Bit ISA controller (which may need FREE BIOS update)

$79.95

16-Bit Dual Channel EIDE Adapter NEW

GSI Model 2C

- Supports 4 EIDE drives (Above 528MB support)
- Co-resides with other disk controller boards
- Upgradeable to 32-Bit using GSI VESA Extenders
- On-board Flash BIOS means no driver required

$49.95

SMC 10Mbps Ethernet EZ ISA Network Card

Model SMC 8416T

Plug & Play

- .Ethernet 10Base-T Network card for ISA computers with one RJ-45 connector
- SMC's Simutasking for superior performance
- Support for all popular network environments

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Quick Path Flexport 22EX 16C650

- 2(16C650) serial ports with 32 byte FIFO
- 2(EPP/ECP) parallel ports
- Single card solution
- Multiple addresses
- 10 IRQ for each serial, 8 IRQ each parallel port
- Toll free hotline for tech support

$109.95

adaptec 32-Bit VL-To-Fast SCSI & VL-To-EIDE Host Adapter

Total Advantage VL/AVA-2825

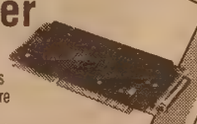
- Connect up to 7 SCSI devices
- Up to 2 standard or EIDE devices
- Up to 2 standard and 1 floppy tape drive
- Adaptec EZ-SCSI Lite software
- Up to 5MB/sec. synchronous on the SCSI bus
- Advanced SCSI programming interface compliant, disconnect/reconnect, synchronous data transfer

$124.95

adaptec 16-Bit ISA-To-Fast SCSI-II Controller

AHA-1522B plus

- Connect up to 7 SCSI devices
- Adaptec EZ-SCSI Lite software with 32-Bit applications for Windows 95 & Windows NT
- Connect SCSI-II hard drives, CD-Roms, Removable disks, scanners & other peripherals



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adaptec 32-Bit PCI to SCSI-II Controller

AHA-2920

Connect up to 7 SCSI devices

- 10MB/s fast synchronous SCSI-II burst transfer rate on the SCSI Bus
- Adaptec EZ-SCSI Lite software with 32-Bit applications for Windows 95 & Windows NT
- Plug & Play Support for hard disk, CD-Roms, Removable disks,scanners, tape, Zip, Mo, DAT & other SCSI devices
- Programmable I/O(PIO) data transfer
- Compliance with 133MB/s PCI local bus specification

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TAPE BACKUPS & REMOVEABLES

LOW PRICE GUARANTEE!!

HEWLETT PACKARD
2X6 Recordable Internal SCSI-II CD Drive & Software
SureStore 6020i
- Internal 6X read 2X write
- 650MB Capacity
- Blank CDR disc included
- Includes recording software

$479.95

YAMAHA
4X6 Recordable Internal SCSI-II CD Drive & Software
4X write & 6X Read!
- 6X read/4X write
- 2MB internal cache
- Includes recording software

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Seagate
8.0GB SCSI Internal Tape Backup Drive
Tape.Store8000

NEW

- Up to 8GB compressed
- Up to 60MB per minute /compressed transfer rate
- Connects to your SCSI controller
- Includes Backup Exec software

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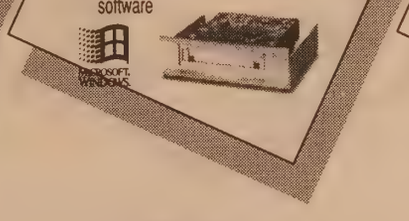

iomega
100MB IOMEGA ZIP Drive
UNLIMITED PORTABLE STORAGE ON A 3.5" DISK
External Parparallel Port or SCSI
- Unlimited Capacity Uses 100MB disks
- Fast -use it like your hard drive 29 millisecond seek time
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JVC
2X4 Recordable Internal SCSI-II CD Drive & Software
XR-W2010 *For PC or MAC*
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- 1MB internal cache
- Write speed: 2x
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- Includes Gear™ CD recording software
- FREE blank CD-R disk
- OEM

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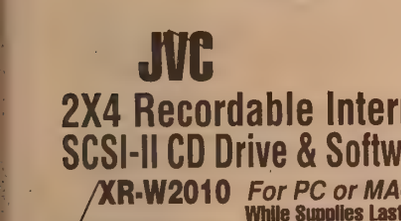

COLORADO MEMORY SYSTEMS
3.2GB Internal Tape Backup System
T-3000
- Up to 3.2GB capacity using Data compression
- Up to 19MB/min backup
- Includes powerful easy to use software
- Includes Windows 95 drivers

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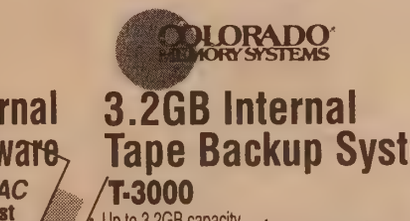
INCLUDES FREE TR-3 Tape!(A $45 Value)



NOMAI™
540MB Syquest Compatible Removeable Drive
External SCSI or Parallel Port
- Up to 5.3/sec transfer
- 512K Cache
- 10ms average seek time
- Compatible with syquest 270MB cartridges

NEW

$209.95* After Mfg $50 Mail-in Rebate

iomega
1.0GB External SCSI Removable JAZ Drive
WOW!
- Unlimited Capacity Uses 1.0GB or 540MB Jaz disks
- 256K Cache
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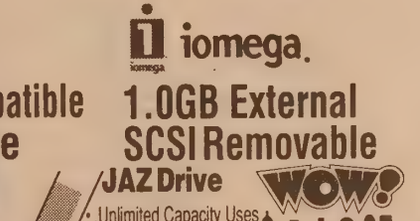
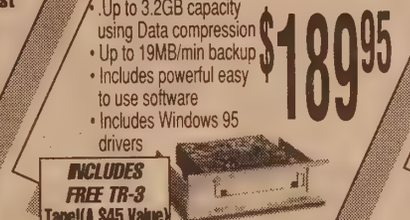


SyQuest
230MB Parallel Port Removable Drive
EZ-Flyer While Supplies Last
- 13.5 AccessTime
- Unlimited Storage
- Reads/Writes 230 & 135 cartridges

$288.95

HEWLETT PACKARD
2.0GB SCSI-2, 4mm, 3.5" Internal DAT TAPE Drive
C1534A
- 2GB of Data on a single cartridge
- Avg. 50secFind File(Fast search)
- 183kb/sec transfer rate
- Uses 60 & 90 meter cartridge
- Compliant with all DOS DAT drives

$549.95



HEWLETT PACKARD
4.0GB SCSI-2, 4mm, 3.5" Internal DAT TAPE Drive
C1536A
- 4GB of Data on a single cartridge
- Avg. 50secFind File(Fast search)
- 366kb/sec transfer rate
- Uses 60 & 90 meter cartridge
- Compliant with all DOS DAT drives

$649.95

MITSUMI
High Quality Floppy Drive
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1.44MB 3.5"

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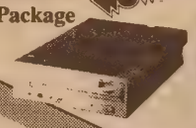
TEAC 24-Speed Internal IDE CD-Rom

CD524E NEW

- .3600kb/sec data transfer
- 95ms access time
- 128K Cache
- Enhanced IDE

WOW! **$109.95**

Retail Package

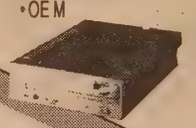


HITACHI® 16-Speed Internal IDE CD-Rom

CDR-8130 NEW

- .2400kb/sec data transfer
- 150ms access time
- 256K Cache
- Enhanced IDE
- OE M

$109.95

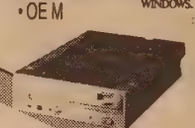


TOSHIBA 12-Speed Internal IDE CD-Rom

5702B NEW

- .1800kb/sec data transfer
- 115ms access time
- 256K Cache
- Enhanced IDE
- OE M

$89.95



BTC 12-Speed Internal IDE CD-Rom

BCD-12X WOW!

- .1800kb/sec data transfer
- 120ms access time
- 128K Cache
- Enhanced IDE

$65.95

Retail Package

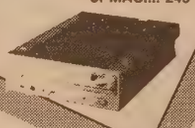
TEAC 16-Speed SCSI-II Internal CD-Rom

CD-516S NEW

- .2400kb/sec data transfer
- 160ms access time
- 512K Cache
- Enhanced IDE
- OE M

$149.95

External for PC or MAC....$249.95



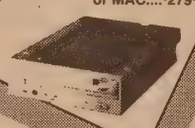
TOSHIBA 15-Speed SCSI-II Internal CD-Rom

XM-3801 NEW

- .2250kb/sec data transfer
- 99(ms access time
- 256K Cache
- Enhanced IDE
- OE M

$179.95

External for PC or MAC....$279.95



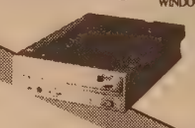
CYBERDRIVE 12-Speed IDE Internal CD-Rom

120D NEW

- .1800kb/sec data transfer
- 150ms access time

$65.95

Retail Package



BTC WOW! 16-Speed IDE Internal CD-Rom

BCD-16X PLUG & PLAY

- 2380kb/sec data transfer
- 95ms access time
- 128K Cache
- Enhanced IDE

$79.95

Retail Package

BTC WOW! 16-Bit Wavetable Plug & Play Sound Card

- Real 16-BIT stereo
- Up to 44.1KHz Sampling
- 32-note polyphoney
- Audio drive VLSI chipset
- IDE interface
- Full duplex support

$45.95

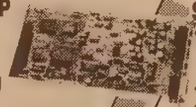
Retail Package

CREATIVE 16-Bit 32-Voice Wavetable Sound Card

Sound Blaster 32 PnP

- 32-note Polyphoney
- Wavetable Sythesis
- 16-Bit CD quality recording and playback
- IDE interface for CD-Rom drives
- Upgradeable to support Soundfonts
- Windows 95 Plug & Play

$109.95



CREATIVE 64 Voice Advanced WaveEffect Sound Card

Sound Blaster AWE 64

- High performance low noise, advanced wavetable, 16-Bit CD quality Record & Play back
- **512K onboard RAM**
- Professional Sound Editing & sequencing software
- SoundBlaster INTERNET™ Audio• Sound
- 100% SB, SB16 & SB AWE32™ compatible

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- **IDE/ ATAPI interface for CD-Rom**
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15" 1280X1024 SVGA Color Monitor
M500

Built-in Speakers NEW!

- .25dp
- Chromaclear™CRT
- 1280X1024
- Plug & Play
- Energy Star Compliant
- Mac Compatible

$379.95

NEC
17"1280X1024 SVGA Color Monitor
XV17+

- 60Hz refresh rate
- 1280X1024,.28 DPI
- Plug and Play
- PC and Mac Compatible
- Chromaclear CRT

$689.95

NCA's *High Quality*
17" 1024X768 Digital Color Monitor
15" VIEWABLE

- Non-Interlaced
- 1024X768,.28 DPI
- Digital on-screen Display

$459.95

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64-BIT 3D Graphic Accelerator
WOW!

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PCI / 4MB SGRAM

- Fast SGRAM memory
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- 3DLabs GLINT Delta and Permedia Accelerator
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- Upgradeable to 8MB

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SONY
17" 1280X1024 SVGA Color Monitor
200SX

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- Trinitron tube
- 1280X1024
- 60Hz
- Plug & Play
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- 3 year warranty

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ViewSonic®
21" 1600X1200 Color Monitor
P815 NEW!

- .25dp
- 1600X1200
- 76Hz
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64-Bit 3D Video Accelerator w/TV Output
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- ATI 3D RAGE II graphics accelerator
- Up to 16.7 million colors
- High resolution 1600x1200 graphics at 75Hz
- High quality TV-out display
- Refresh rates upto 200Hz
- Upgradeable to 8MB

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64-Bit 3D Video Accelerator w/TV Output
3D Xpression+PC2TV NEW!

- ATI Rage II™ Video Graphics Accelerator
- Razor sharp graphics up to 16.7 million colors
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- 1280X1024
- Plug and Play
- On screen Programming
- MPR-II compliant

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17" 1280X1024 Digital Color Monitor
EO70

- .28mm dp
- Non-interlaced
- Up to 1280X1024
- Digital controls
- Plug & Play ready

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LA matrox
3D, Entertainment & Multimedia Accelerator
Mystique

- 64-bit PCI graphics accelerator
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- Bundled with: Mech Warrior 2, Destruction Derby 2 & Scorched Planet

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Make sure you're part of this important resource to generate the sales that will make your fourth quarter a success! Complete and sign the attached reseller poll form and mail or fax it back by October 1, 1997.

** Figures based on data compiled through an independent reader survey, conducted by Research USA, Inc., May 1995.*

MICROTIMES 1997

9th Annual Reseller Poll

Mail to: **Reseller Poll**
3470 Buskirk Ave., Pleasant Hill, CA 94523
Fax: (510) 946-2972
Deadline: October 1, 1997

Please use separate forms for multiple store locations

Store Name: _____
Store Manager: _____
Address: _____
City: _____ **State:** _____ **Zip:** _____
Phone: _____ **Fax:** _____
email: _____ **URL:** _____

What is your specialty?
Stores:

- ❑ CD titles
- ❑ Computer hardware
- ❑ Desktop publishing
- ❑ Entertainment
- ❑ Mobile office
- ❑ Multimedia
- ❑ Networking
- ❑ Notebooks
- ❑ Peripherals
- ❑ Repairs
- ❑ Service bureau
- ❑ Small office/Home office
- ❑ Software
- ❑ Software development
- ❑ Training
- ❑ Video
- ❑ **Internet provider:**
  - ❑ Business services
  - ❑ Co-location
  - ❑ High-speed access
  - ❑ Web page development

List your top 2 specialties and in-house expert for each:

Specialty	Expert
1. _____	_____
2. _____	_____

What software operating systems does your business support?

❑ Windows NT ❑ Windows 3.X ❑ Windows 95 ❑ MS-DOS ❑ UNIX ❑ Macintosh ❑ Novell ❑ OS/2 ❑ Other

What special value-added services (e.g., service, training, support, warranties, return policy, etc.) does your business offer? *(Please keep responses under 25 words or we will edit them to fit available space.)*

_____
_____
_____

Are you a vendor-authorized sales, service, training, and/or support source?
If so, please list up to three vendors (e.g., Apple, IBM, Novell, Hewlett-Packard, Compaq) who have authorized your business to provide these services, and check the areas for which you're authorized.

Vendor	Sales	Service	Support	Training
1. _____	❑	❑	❑	❑
2. _____	❑	❑	❑	❑
3. _____	❑	❑	❑	❑

I certify that all the statements made in this survey are true.

Name: _____ **Signature:** _____
Title: _____ **Date:** _____

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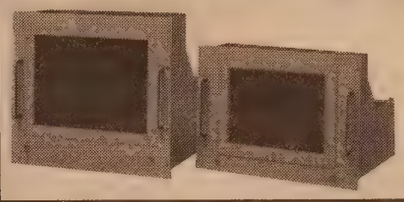
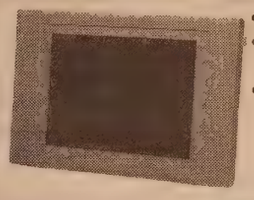
Rack-Mount Monitor Enclosure



$225 & up

Flat Panel Display



- No Radiation & No Sparkle
- Adjustable Screen for View Angle
- Different Type of Flat Panel
  -High Speed B/W FSTN Screen
  -TFT Active Matrix Color Screen
  -Dual Color STN Screen

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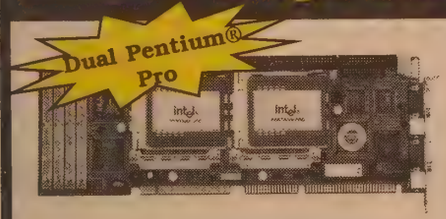
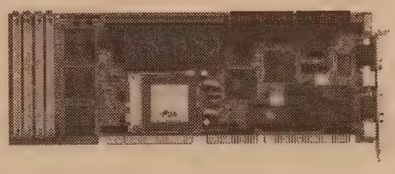
Single Board Computer

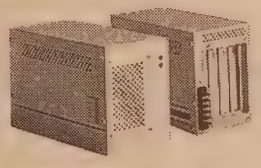




- From 486 to **Dual Pentium® Pro** up to 200MHz
- Intel or SIS Chipset Offered
- Award BIOS
- RAM up to 256MB Supported
- EIDE, FDD, 2 Serial/1 Parellel, PS/2 Mouse & Keyboard Connectors
- On-Board SVGA w/1MB Supported(Optional)
- On-Board UW-SCSI Supported(Optional)
- Watch-Dog Timer

$290 & up

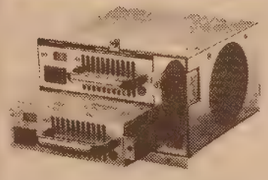
Industrial Node Chassis



- 4-8 Slots Passive Backplane Available
- Heavy-Duty Steel Construction
- Push-Pull Cooling Fan Supported

$180 & up

PS/2 Redundant Power Supply

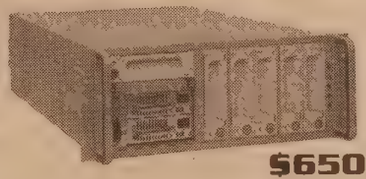


- Hold-Down Clamps
- Dual Power Supply up to 450W
- Design for Fault Tolerant System
- Meet UL, TUV IEC 950, FCC Class B & CE

$350 & up

Fault Tolerant & Industrial Chassis

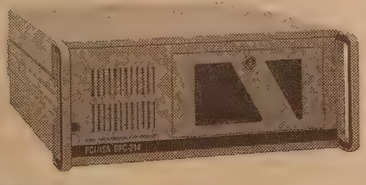
20-Slot Fault-Tolerant Chassis



- Meet EIA RS-310 Standard
- Six 5.25" Drive Bays to Support RAID Devices
- Hot Swap Redundant Power Supply up to 450W Power Output
- More Than 4 push-pull Cooling Fans Supported

$650 & up

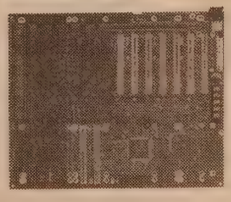
19" Industrial Chassis



- Meet EIA RS-310 Standard
- Support Standard Motherboard & 8-20 Slots Backplane
- Three 3.5" & Two 5.25" Drive Bays
- Dual or Three Cooling Fans Supported

$260 & up

Passive Backplane



- ISA/PCI 4, 6, 8,14, 20 Slots
- Commits to PICMG Std
- Adapts Gold-Plated Socket & Tantalum Capacitor
- No Gap Exists between Slots & PCB

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- **Intel Pentium 133 CPU** w/fan
- **16 MB** RAM 60ns 72pin EDO
- 1.44 MB Floppy Drive
- 32 BIT EIDE w/2S/1P/1G(16550)
- **Seagate 1.7 GB** EIDE HD
- **Diamond** PCI w/1MB SVGA
- 12X CD ROM
- **Soundblaster 16 Compatible**
- **Tyan ISDN/33.6K** Combo Modem
- Acer 60 Watt Speakers
- 104-Key Keyboard
- Mini Tower Case
- Microsoft Windows 95 CD
- Mouse With Pad

$759

Upgrade

- TO Pentium 166 ..... $60
- TO Pentium 200 ..... $199

Win NT Station

- Intel Venus Mother Board w/**USB**
- **Intel Pentium Pro 180** MHZ CPU
- **32MB** RAM 60ns 72pin
- 1.44 MB Floppy Drive
- **3COM PCI Networking Card**
- **Seagate 1.7 GB EIDE HD**
- **Matrox** Mystique 4MB Video Card
- **Tyan ISDN/33.6K** Combo Modem
- **BTC 16X CDROM**
- **SoundBlaster 64 Sound Card**
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- Keytronic PS/2 Keyboard
- ATX Medium Tower Case
- Microsoft Windows '95
- Microsoft Intellimouse

$1389

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- To Pentium Pro 200 ..... $150
- To Pentium Pro 200 ..... $150

Cyrix 200 MMX

- ASUS VX97 Pentium Motherboard
- 512k Pipe Line Burst Cache
- Cyrix **M2-200 w/MMX** CPU w/fan
- 8MB EDO RAM 60ns
- 1.44 MB Floppy Drive
- **Seagate 1.2 GB HD**
- **Diamond** PCI 1MB Video MPEG
- **12X** CD ROM
- SoundBlaster 16 Compatible
- **Tyan ISDN/33.6K** Combo Modem
- Super Mini Case
- 3 Button Mouse w/Pad
- Windows 95 CD
- Acer 60 Watts Speakers
- 104-Key Keyboard

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- Add 14" Monitor $155
- Add 15" Monitor $239

Internet Explorer

- Intel Tuscon Motherboard w/256K
- **Intel Pentium 166 MHz CPU**
- **32 MB** EDO RAM 60ns 72pin
- 1.44 MB Floppy Drive
- 32 BIT EIDE w/2S/1P/1G(16550)
- **Western Digital 3.1 EIDE HD**
- **Diamond 3D 2000 w/4MB**
- **24X CD ROM**
- **Tyan ISDN/33.6K** Combo Modem
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- Asus ATX Medium Tower Case
- Microsoft Window 95
- Yamaha Integrated Audio
- Microsoft Intellimouse
- Acer 60 Watt Speakers

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- Winboost 1MB/2MB DRAM PCI ..... $55/$62
- Video Xpression 2MB DRAM PCI $70
- 3D Pro Turbo PC2TV 4MB $199
- 3D Turbo PC2TV 8MB $269
- Winturbo 64 2MB/4MB VRAM PCI ..... $139/$225
- 3D Xpression PCI 2MB/4MB SDRAM ..... $139/$165
- 3D Xpression+ PC2TV 4MB/ $169

DIAMOND
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- Stealth 3D 2000 2MB/4MB DRAM PCI ..... $62/$82
- Stealth Video VRAM 2MB/4MB PCI ..... $104/$159
- Stealth 3D 3000 2MB/4MB VRAM ..... $104/$145
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- Fire GL 1000 4MB/8MB Retail ..... $269/$309
- Stealth 3D Pro With TV 4MB Retail $179
- ***MONSTER-3D OEM/Retail ..... $139/$187***

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- Dynamite 128 PCI 2MB $99
- ***Dynamite 128 PCI 4MB $139***

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- Millenium 4MB WRAM PCI(Retail) $260
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- ***9FX-Motion 771 2MB PCI (OEM) $65***
- 9FX-Motion 531 1MB/2MB PCI(Retail) ..... $149/$189
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- Imagine 128 4MB Series-2 PCI $429
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- Lynx 64 1MB PCI $59
- Tarantula 64 2MB/4MB VRAM PCI ..... $182/$290
- Tarantula 64 MK II 4MB VRAM PCI $299

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- Trident 9000A 512K ISA $29
- Trident 8900CL w/1MB ISA $35
- Trident 9440 1MB PCI $29
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- 15" 1280x1024 .28 DP AV56E $329
- 17" 1280 X 1024 .27 DP AV76I $579

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- 3V 14" .28dp $249
- 4V 15" .28 1280x1024 ..... $325
- 5G 17" .28 1280x1024 ..... $515

ARTMEDIA (SONY OEM) 3 Year Warranty
- TX-1664 1280x1024 15" .25 PnP $345
- TX-1884 1280x1024 17" .25 PnP $599

CTX
- 14" 1024x768 .28dp Non-Int $223
- 15" 1024x768 .28dp Non-Int $317
- 17" 1765GME 1280x1024 ..... $579

HITACHI
- CM1587M U15" 1280 x1024 .28 DP $369
- CM1721M U17" 1280 x1024 .28 DP $659
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- Vienna 15 ..... $255
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- 21FMX $1417

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- P1150 21" .28dp 1600x1200 ..... $1750

NOKIA
- 449E 15" 1280 x 1024 .28DP NINT. $429
- 447XAV 17"1600x1280 .25dp TCO,subwooter $999
- 447X 17" 1600 x 1280 .25 NINT. $849
- 447K 17" 1600 x 1280 .25 speaker, camera $1449
- 445XI 21" 1600 x 1280 .22 TCO $1749

PROTON
- GM-1560 15" 1280X1024 .28 DP NINT Digital $299
- GM-1562M 15" w/speaker&Microphone $349
- ***GM-1764 17" 1280X1024 .26DP $529***
- ***GM-1764M 17" w/speaker&Microphone $559***

PRINCETON
- Ultra 17 plus 17" 1600x1280 .28 DP $629

SAMPO
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- P815 21" 1800x1440 .25dp Megamonitor $1855

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3COM
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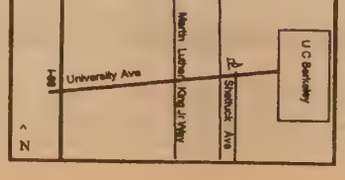

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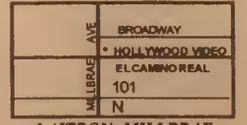

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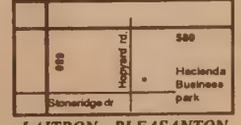

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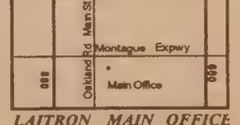

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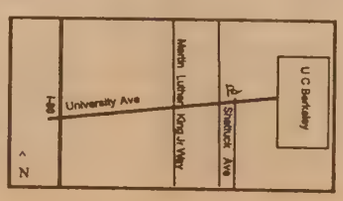

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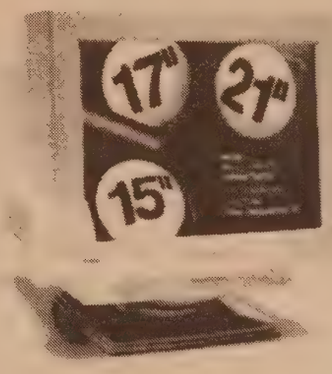

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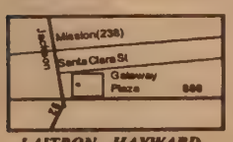

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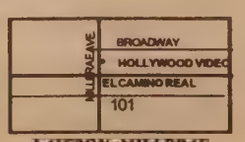

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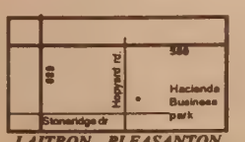

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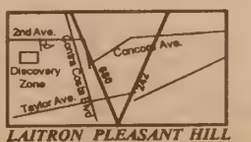

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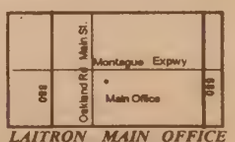

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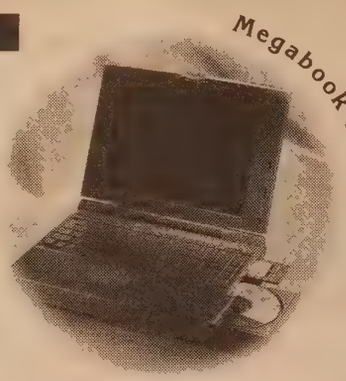

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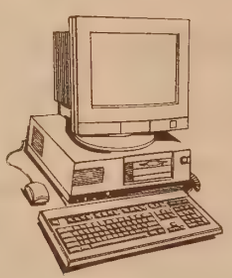

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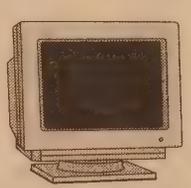

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Apple StyleWriter 2500, w/ Cable	$399
Apple LaserWriter 4 / 600	$895
Apple LaserWriter 12/ 640	$1595
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HP Laserjet 5M	$1895
HP LaserJet 4MV, 11X17 Size	$2895
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Apple ColorOne Scanner 1200/30	$849
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8MB, PB 5300	$179		
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PowerCenter 150	1495	57
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PowerCenter Pro/180	1995	75
604/180Mhz, 16MB/2Gig /CD/256K Cache		
PowerCenter Pro/210	2395	91
604/150Mhz, 16MB/2Gig HD/CD/512K Cache		

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Power Mac 8600/200,32/2G/CD/ZIP	2995	113
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AppleVision 850 20" Display	1795	68
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LaserJet 5M, 600dpi Printer	1895	72
Laserjet 4MV, 11x17 600dpi Printer	2895	109
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Online Guide

INTERNET • BY JOHN S. QUARTERMAN

PointCast

A Conversation In Tokyo

"Have you tried PointCast?" asks Dewayne Hendricks, smugly poking at it on his Mac, now that he'd finished his paperwork and sent it off to the States from the speaker's room in Tokyo, where we were hacking between talks at NETWORLD+ INTEROP (*http://www.interop.com*).

"Nope. Heard of it, haven't tried it," I say, thinking this might divert people from asking why I wasn't using POP and was instead reading my mail over a TELNET connection back to the ranch.

"Well, it can show news stories like this, and stock quotes with graphs, and it's all organized into channels like this. It checks for new stuff automatically, but you can tell it to go ahead and check, like this," he says, making it retrieve new data over the Internet through the lunch table LAN from servers in the States.

"Oh, yeah, that's the sort of thing Marc Andreessen was talking about in his keynote yesterday."

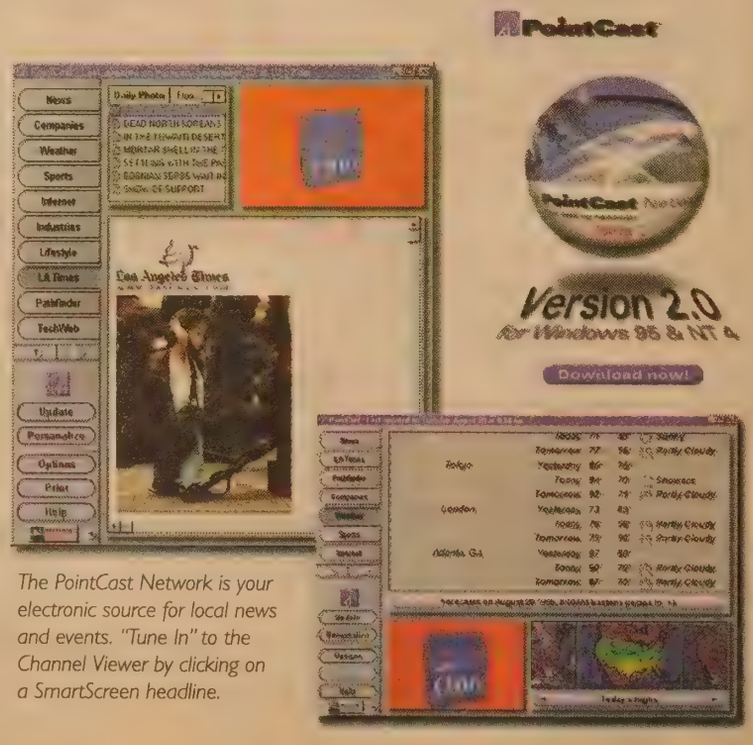
"Except of course he was talking about the Netscape (*http://www.netscape.com*) version of the same idea."

"Yep."

"How much disk space does it take?"

"Oh, about 10MB. Not much."

"Still, I'm not sure I need yet another information source. My main task is sorting through the information I already get and regurgitating it in pre-digested chunks."



The PointCast Network is your electronic source for local news and events. "Tune In" to the Channel Viewer by clicking on a SmartScreen headline.

"My, what an attractive description. I do the same thing, though."

Retrieval

"Okay, I'll bite," I say. " Where do I get it?"

"From *http://www.pointcast.com/* ."

"Okay, here we go. Looks like there's a new beta out, 2.0 beta 1."

"Yes, that was released Monday, but there's no Mac version."

"Yeah, and there's no UNIX version at all, I see. Oh well. Since I'm stuck with Windows 95 on this Dell notebook (*http://www.dell.com*) for this

"Well, it can show news stories like this, and stock quotes with graphs, and it's all organized into channels like this. It checks for new stuff automatically, but you can tell it to go ahead and check, like this," he says, making it retrieve new data over the Internet through the lunch table LAN from servers in the States.

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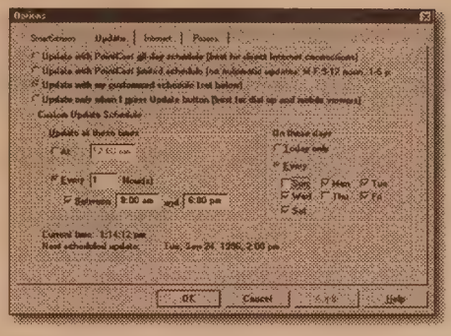
Internet *continued...*



Update your news, stocks, and other information and log off at the times you schedule.

trip (I haven't found X Windows drivers for the graphics card yet), let's try it anyway."

There was some confusion with the Web page retrieval for the latest beta, which didn't really seem to be available after all, so I picked up v1.6 instead. There were copious instructions for the usual rigmarole of retrieving a DOS executable, dropping it in a file, and then running it to extract the Windows 95 program. I did all that, and started up a fetch of PointCast information.

"That's really retrieving fast! Much faster than it was working for me just now," Hendricks says.

"Yep."

"Oh, I see, you haven't personalized it."

"Nope, I wanted to see what a vanilla version would do."

"Looks like it's done. Poke at a channel and it will show you a frame on it."

"Okay, let's try companies. EDS. Not very interesting to me, but that's a nice graph of recent stock performance. The stock ticker at the bottom is kind of cute, too."

"And if you point at one of the lists of stories, it will bring up one for you."

"Okay, that works. Where's it getting the stories?"

"Scroll back to the top of that frame. There you go: CNN."

"And I see it's got a CNN channel. Of course, the Oklahoma City jury decision is the first story."

"And it's got a headline crawler at the top in this frame."

Personalization

"Okay. Now let's customize it," I say.

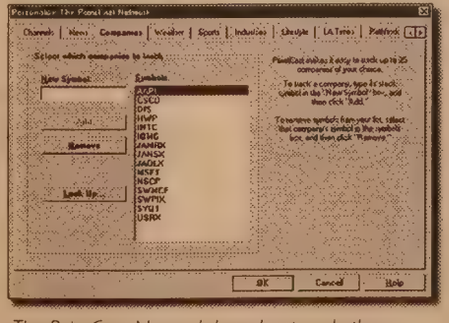
"Just point at 'customize'," Hendricks says.

"Ok, let's add SUNW (Sun Microsystems), BBN (to see what happened with the stock when the sale to GTE was announced), and Apple. What's the stock code for Apple?"

"AAPL. You can also look it up by poking there."

"Okay, here we go," I say. "That was fast. Guess I didn't ask for much more than it had already retrieved."

"Look at that BBN stock graph! Jumped up suddenly by many points and now it's a straight line."



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Internet *continued...*

"Yep, that was at the sale announcement, and it's now selling at the GTE-offered price of 28."

"Apple and Sun are up, too."

"I see it's got weather, too."

We looked at some weather maps for a while and then got diverted by looking at the clock to see if we needed to go to the next session.

Screensaver

"Screensaver!" says Steve Goldstein, kibitzing from the left. "I keep the PC in my office doing that when I'm not using it for something else."

"Yeah, but he won't like it much," Hendricks says.

"Maybe not, but my father might," I say. "It just keeps cycling through the frame you looked at last?"

"No, it runs through all the topics you've customized it for."

"That would be perfect. No typing. Just mouse. And he can select what he wants it to collect." (Hi, Dad. I know you read these things.)

SmartScreens replace uninformative screen savers with breaking news, a personalized stock ticker, sports, weather for cities you've selected, and more.

Hendricks was right. I didn't like it much when it kept screensaving in the middle of my workshop the next day, but I finally got it turned off, and that was an unusual case.

Browsers

Hendricks and I continued fiddling with PointCast.

"So we're using its own PointCast user interface," I say.

"Yes, but if you point at any of the ads in that upper-right frame, it will start up a Web browser."

"Is there any way to turn off the ads?"

"Not that I know of."

"Whatever. I suppose you can always cover that up with something. I see you can run it out of a Web browser, too."

"Yes."

"So this is basically what the MIT Media Lab (*http://www.media.mit.edu*) used to call 'broadcatch,' isn't it?"

"Yes, I guess it is. There are no new ideas."

"Looks pretty useful, though. Thanks for the column. I'll make sure your name appears prominently!" ■

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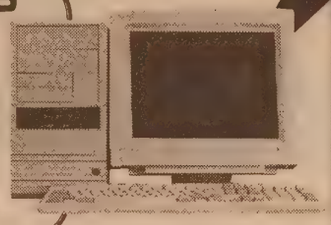

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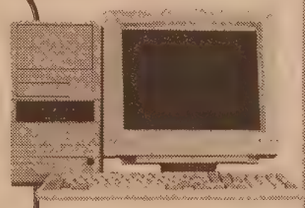

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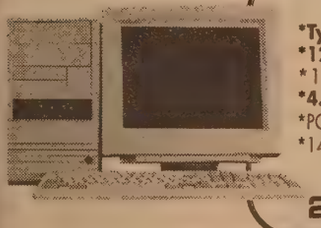

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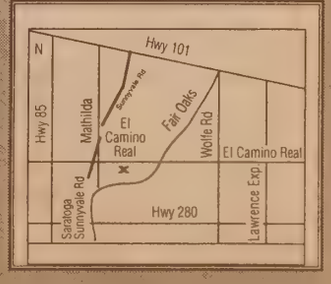

ONLINE SERVICES • BY BILL GRAM-REEFER

Disney.com

Not A Small World, After All

If your kids can't get enough of Hercules, or Hades and the Fates, or Pain and Panic, then you better point them to Disney's weapon of mass distraction Web site at *http://www.disney.com* . It used to be that summer blockbuster movie merchandise tie-ins were the sole domain of burger and taco conglomerates. Not anymore, as cyberspace finds its niche in helping Disney sell tongue-in-cheek pop culture to would-be worms of all ages.

From the Hercules index page, you can catch up on the day's mythical sports highlights on Olympic SportsCentaur Newscenter, a Web site fashioned after ESPN sans Keith Olbermann. Here you'll find news flashes and featured reports concerning how the record-breaking Hercules went back-back-back-back to vanquish opponents including the Cyclops, Nessus, or the pesky Hydra who grows back heads every time Thebes' hunky hero hacks them off. Hades, King of the Underworld, manages to get his unauthorized two-cents in as well.

There's a Wheel of Sparta game you can play if you have a Windows PC and just the right combination of browser and plug-ins. Pretty touchy stuff.

Meg's pages show off her fashion sense, theatre reviews, and advice column. You can also visit with Hades, the Fates, Phil, checkout MuseTV or the Mega Mall directory to see when Herc, Pegasus and the gang will be visiting a shopping mall near you on their tour across the US.

Not to be outdone, even Pain and Panic have their own site where you can read their bios, play sound clips from the movie or download a Disney 3-D Toy game called "Pain and Panic do the Runway." "Runway" is a short download that, when launched, shows Hades' two henchmen standing next to a stack of clothes. The object of the game is to "dress up" the two with a selection of shoes, shirts, pants, and assorted undergarments stacked nearby. This stuff seems as ribald as the movie, but heck, it's Disney; got to be good for kids and family, right?

It used to be that summer blockbuster movie merchandise tie-ins were the sole domain of burger and taco conglomerates. **Not anymore,** as cyberspace finds its niche in helping Disney sell tongue-in-cheek pop culture.

Tamer fare can be found by clicking the icons for Pooh or the 101 Dalmatians. You can preview the Dalmatians' Saturday morning TV show (due this fall on Disney-owned ABC) or discover behind-the-scene facts from the movie, or sample the 101 CD.

Like you, I have enough Pain and Panic in my life already—let alone trying to dress them up fashionably—so Pooh's more my speed.

There's a nice promo for the "Winnie-the-Pooh and the Honey Tree" animated story book on CD-ROM. Children 3-8 can read along, sing along or play some of the interactive games in tow.

Don't forget to order passes for the Disney theme parks, or to check out the other goodies for sale, including books, videos, software and vacations to Disney-themed resort areas around the world.

Family.com

If you want less glitzy family-oriented programming from Disney, then zoom on Disney's Family.com Web site (*http://www.family.com/*). When I visited, the Parenting section had features about how not to spoil your kids, the right way to give time-outs, and advice on toilet training. The Education area offered suggested summer reading lists for kids and advice on ways to learn about the summer solstice with your kids. (Sorry, no mention of marching nude through Bolinas and other potentially embarrassing perihelion party pranks.)

The Family Ties section focused on Father's Day, offering D-Cards, electronic postcards you can customize and send to your favorite Dad. Actually, the recipient of a D-Card only gets an email stating there is a special message waiting for them at some Web URL. So the lucky recipient must point their browser to that URL to view the card and any commercial messages that just may be lurking nearby. Better than another Dilbert tie, I suppose. Another article discussed how to tailor your parenting style to your kid's personality type. There was a discussion of annulments as well.

The Food section offered some tips on great grilling, and some supper ideas featuring tortillas, plus loads of recipes. Summer means travel so there were listings of family outings, some

continued on page 172

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* Independent study released June 25, 1997 by Boardwatch Magazine, Inc. and Keynote Systems, Inc.

†Offer includes free use of a Cisco router (model shall be determined by GeoNet), a CSU/DSU, connector cable, and transceiver for the term of the contract with GeoNet. Equipment provided as part of this offer is and shall remain the property of GeoNet or GeoNet's lessors. Offer available throughout the Greater Bay Area. Telephone circuit installation and monthly telephone fees not included. © 1997 GeoNet Communications, Inc. All rights reserved.
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- Enhanced IDE w/16550 I/O
- Tower or Desktop Case w/Power Supply
- 104 Enhanced Keyboard

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- Intel Triton Chipset w/256K Pipeline Cache
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- Enhanced IDE w/16550 I/O
- Tower or Desktop Case w/Power Supply
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*Prices do not include Hard Disk, Display or RAM

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- ATX Mid-Tower Case
- 104 Enhanced Keyboard

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200MHz $450
166MHz $400

- AMD CPU
- Heat Sink & CPU Fan
- 0MB Expandable to 128MB on Board
- Intel Triton Chipset w/256K Pipeline Cache
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- Enhanced IDE w/16550 I/O
- Tower or Desktop Case w/Power Supply
- 104 Enhanced Keyboard

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120MHz $305
100MHz $300

- Intel Pentium® CPU
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- 0MB Expandable to 128MB on Board
- Intel Triton Chipset w/256K Pipeline Cache
- 1.44MB Floppy Drive
- Enhanced IDE w/16550 I/O
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- NiMH Battery, AC Adapter, Carrying Bag

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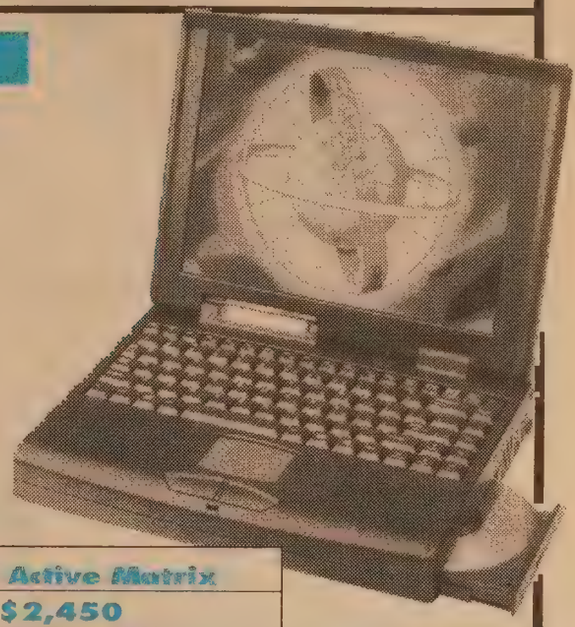
32MB Add $120.00

33,600 Fax Modem Add $95.00



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Diamond Stealth® 64 PCI 1MB/2MB DRAM	60/70
Diamond Stealth 3D 2000 PCI 2MB/4MB	70/95
Diamond Stealth 3D 3000 PCI 2MB VRAM	110
Diamond Stealth 3D 3000 PCI 4MB VRAM	155
Matrox Mystique 2/4MB	105/130
IDE Card w/Cable	15
IDE I/O w/16550 UART	35
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Adaptec 2940 PCI SCSI	180
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Iomega Jaz Dr. 1.0GB Cartridge	90
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Iomega Zip Dr. 100MB Cartridge	15
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28,800 Fax/Modem Ext V.34	90
US Robotics 33,600 Sportster Int	105
US Robotics 33,600 Fax/Modem w/Voice	115
US Robotics 56K Int.	165
US Robotics 56K Int. w/Voice	180
US Robotics 56K Ext.	195

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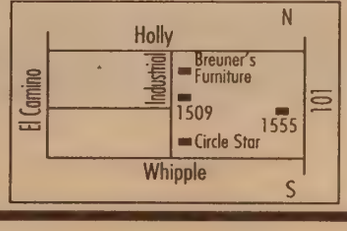

Online Services *continued from page 168*

research on American Indian Powwows taking place this summer and even a list of some resorts that welcome toddlers. The computing section discussed cool games for pre-teens and how to use your computer to look for a job, how to get free email, or plan a vacation online.

Overall, browsing Family.com felt a little like what an online version of *Sunset Magazine* could be. The vacation planners, the recipes, it's all there. Just substitute the parenting topics for Sunset's pages of classified ads hawking academies for troubled youth and you've nailed it.

If Hillary Rodham Clinton ever built a village, it'd be talked about here. Each of the topical areas have conference areas where browsers could leave messages on various topics, including Rainy Day activities, Gifted and Talented students, Home Schooling, Learning Disabilities, Teaching Values, Adoption, New Single-Step Parenting, Child Care, Pets, Food Allergies, Sibling Rivalries, Pre-teens, Parent Bloopers, Cruises, Outdoor Adventures, and House Swapping.

The recipient of a D-Card **only** gets an email stating there is a special message waiting for them at some Web URL. So the lucky recipient must point their browser to that URL to view the card— **and any commercial messages that just may be lurking nearby.**

A sophisticated search engine enables registered users to create customized searches of the site's entire database for articles and information on a variety of topics. The topical areas can also be further customized by the age of your children and subcategories. In addition, Family.com's network of more than 100 regional parenting publication affiliates provide extensive online calendars of local, family-oriented activities in communities across the US and Canada.

Other content comes from the likes of *FamilyPC* magazine, *Cooking Light*, *FamilyFun* magazine and other publishers. Online personalities offering advice feature well-known names including Penelope Leach, Marguerite Kelly, Jan Faull, and Tom and Susan Price. More recently, Family.com expanded its presence with the acquisition of Starwave's Family Planet.

continued on page 176

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RealAudio Support	Available
Custom CGI Programming	Available
Database Services	Available
Information Request Form	Available
Same Day Setup (Monday-Friday)	Yes
AnaServe Reseller Program	Yes

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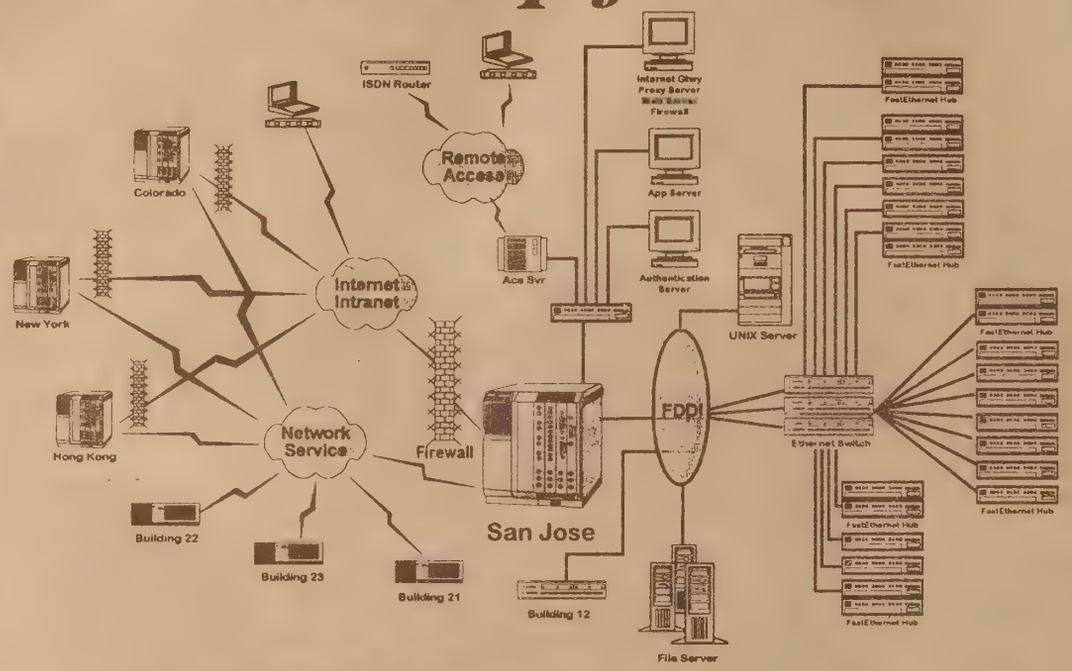

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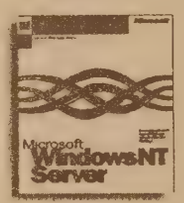

Microsoft Windows NT® Server

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SMART-2 Array Controller

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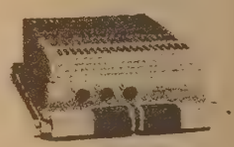

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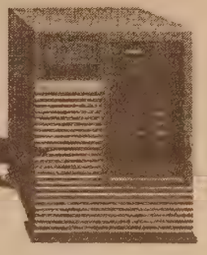

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Online Services *continued from page 172*

Subscriptions to Disney's Family.com, which also include a world of fun for the kids via Disney's Daily Blast, cost $4.95 per month or $39.95 for the full year. Disney's Daily Blast and Disney's Family.com are both available on MSN+, the Microsoft Network, at no extra charge to MSN members.

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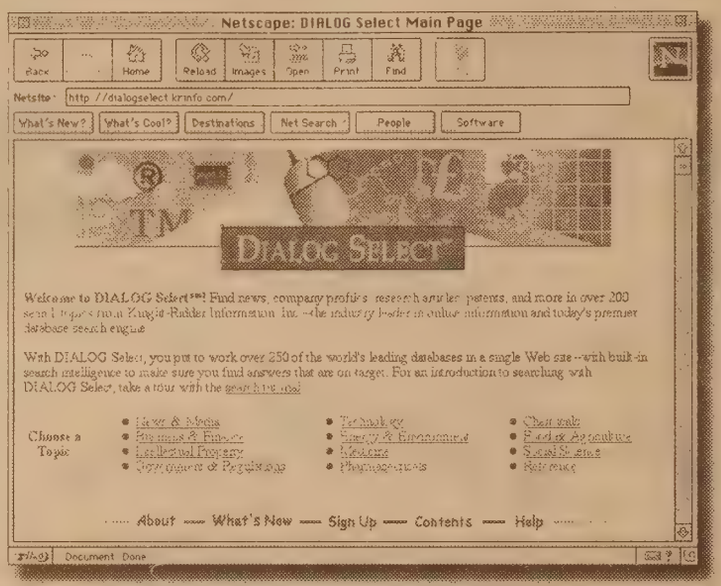
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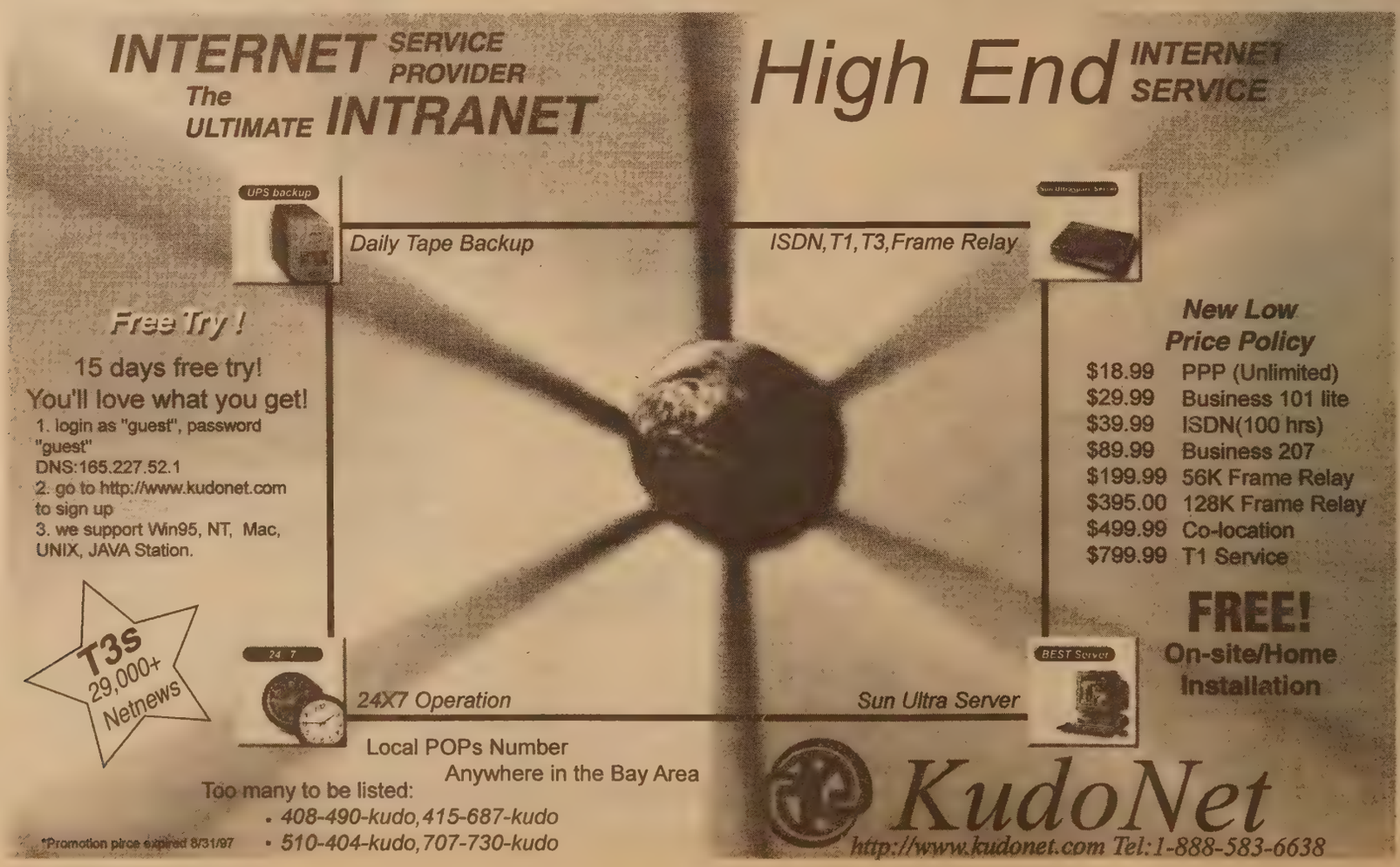

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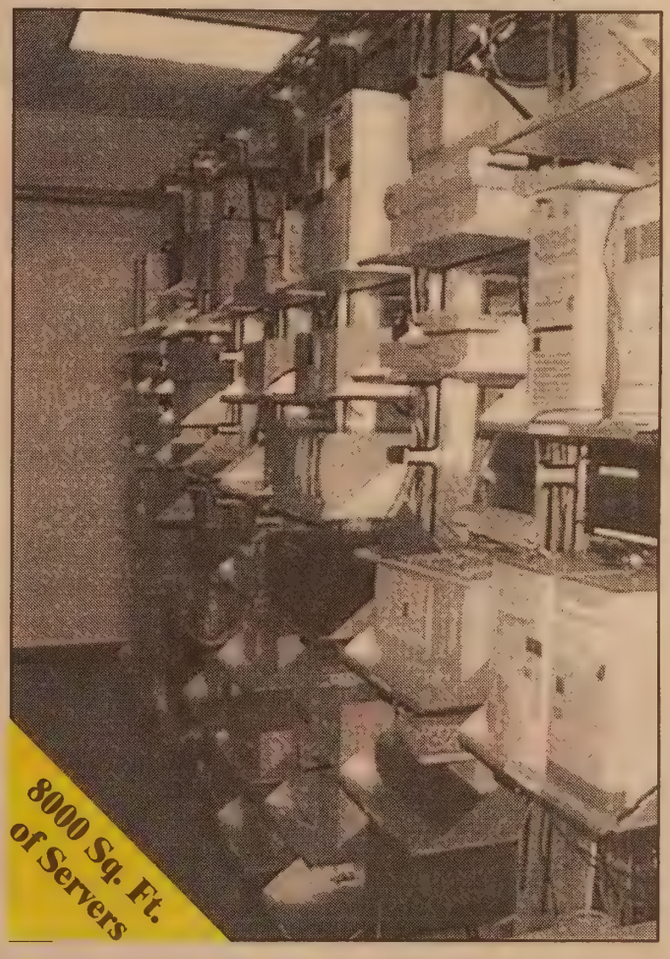

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- Pair of Stereo Speakers
- 104-key Enhanced Keyboard
- MS Mouse
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Pentium 166	$2030	$2090	$2385	$2595
Pentium 200	$2095	$2155	$2450	$2660
MMX-166	$2115	$2175	$2475	$2685
MMX-200	$2355	$2415	$2710	$2920

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INTEL MARL W/MMX 512K 130
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INTEL TUSCON W/VGA 265
INTEL TUSCON W/SOUND 130
INTEL VENUS 155
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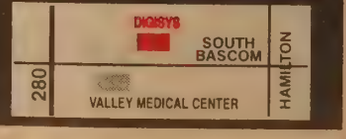

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Abacus Computers *http://www.computers-online.com* Full-service solutions provider. Authorized distributor of Cisco, Novell, Ascend, 3COM, U.S. Robotics, PacBell, and others. [Exp. #168.]

Arlotto Home Page *http://www.arlotto.com* ISDN and networking equipment manufacturer. [Exp. #169.]

Axis Systems *http://axis sys.com* Web site offering useful product information and specs. [Exp. #168.]

Cadd/Engineering Supply *http://www.cesplot.com/* With over nine years of experience in supporting the CAD market, we have built a reputation for exceptional pricing and outstanding customer service. [Exp. #168.]

California Electronics, Inc. *http://www.calpcparts.com* [Exp. #169.]

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CD World—World Wide Web *http://www.cdworld.es* CD Recorders, CD Replicators, and blank CDs. [Exp. #169.]

Centura Software Corp. *http://www.centurasoft.com* Centura Software (Formerly Gupta Corp.), provides products, such as ForeSite, for developing and deploying high-performance Web-based and client/server applications. [Exp. #168.]

Chakers, Inc. *http://www.chakers.com* Specializing in computer monitors and peripheral equipment. Monitor and electronics repair service. [Exp. #169.]

Complete Computer Solutions *http://www.cscorp.com* Local Area Networks, custom software, downsizing, Web page creation, system upgrading. [Exp. #167.]

Dad's Computers *http://members.aol.com/g2bitln/index.html* Custom build, repair, and upgrade computers. Offering Internet research and tech support. [Exp. #168.]

Dadaware *http://www.dadaware.com* Features Embellish, image editing software. [Exp. #167.]

Developers Media Systems *http://www.developersms.com* Instructional videos, catalog Web sites, online conferencing. [Exp. #169.]

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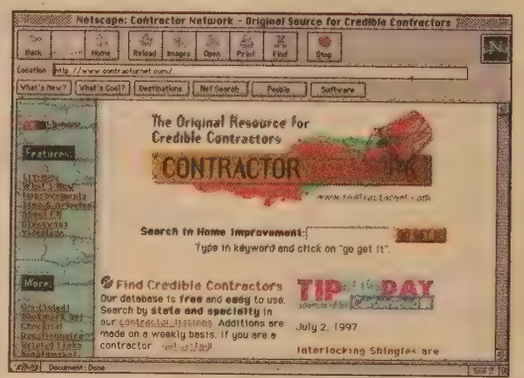
Free Flight *http://www.free-flt.com* Free Flight, a moving map application with 3-D terrain; makes aeronautical navigating easy. [Exp. #168.]

HiTek Solutions, Computer Education Centers *http://www.hiteksolution.com/hiteksolution/* Novell and Microsoft certification training providers. (714) 474-8270. [Exp. #169.]

HP Small Business Web Resource Center *http://www.hp.com/go/smallbiz/* This new site is part of HP's small-business initiative to help small businesses use as a business tool to increase productivity. [Exp. #168.]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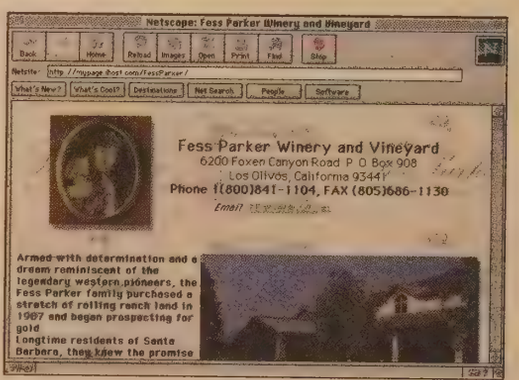
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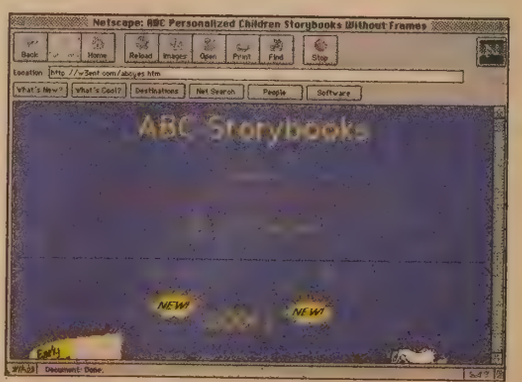

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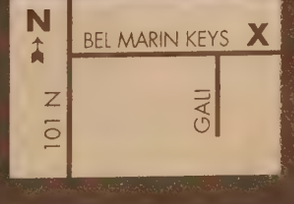

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1st Family Of Internet Services *http://members.tripod.com/~altek* Offer Internet access and earn up to $20,000/month. [Exp. #169.]

A+Net *http://www.abac.com* Southern California's total Internet Solution. Connect plans from $3.33/mo. Business services and merchant servers. [Exp. #168.]

A2ZBIZ—Total Internet Presence *http://www.a2zbiz.com/* Professional services in site design, multimedia, and hosting. Extensive marketing experience, reasonable prices. [Exp. #169.]

Accesspoint *http://www.apc.net* $18.95 dial-up. $29.95 Web hosting with domain name, unlimited traffic, and FP extensions. [Exp. #169.]

Alpine Solutions *http://www.aplines.com* Alpine Solutions GeoFind service provides Internet-based business locator capabilities to business. [Exp. #168.]

Another Color *http://www.anothercolor.com* Communication design. [Exp. #169.]

Brad Sadler's Web Design *http://www.amer.net/users/malaya/* Offering striking Web design and ten years of marketing experience. 25% discount for non-profits. [Exp. #168.]

Connecting Business To The Future *http://www.connectx.com* Internet and intranet business solutions. [Exp. #168.]

DEK Productions *http://home.earthlink.net/~bacdoc/dek.htm* Web page design and LA local video services with full digital capabilities. [Exp. #168.]

DIALOG Select *http://dialogselect.krinfo.com* Information retrieval service for professionals. [Exp. #169.]

The Drink Exchange *http://www.drinkexchange.com* Drink Exchange's mission is to help Web professionals promote themselves by fostering an offline community where what you provide is roughly proportional to what you imbibe. [Exp. #168.]

Elsop Webmaster Resource Center *http://www.elsop.com/wrc/* A Web site for Webmasters that contains the best links and most comprehensive coverage of computer industry trade publications, Web site development, HTML servers, software for Webmasters, and more. [Exp. #167.]

Equilio Web Design *http://www.equilio.com* Web page design packages for starters ($300), designers ($600), and professionals ($1,000 and up). [Exp. #168.]

Facilitate.com *http://www.facilitate.com* Collaborative groupware applications that provide an electronic conference center where multiple meetings and discussions can be conducted. [Exp. #169.]

First Light Internet Services *http://www.firstlight.net* Unlimited PPP accounts, $19.15/mo. [Exp. #168.]

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Global Web Marketing, Ltd. *http://www.gwn.co.uk* Internet design, design franchises, fax broadcast, email marketing (UK). [Exp. #168.]

HomeGate Corp. *http://www.homegate.net* Internet roaming service. [Exp. #169.]

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InternetConnect *http://www.internetconnect.net* Full-service Web site hosting and development. Complete corporate Internet access solutions. [Exp. #168.]

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Marinternet *http://www.marinternet.com* Internet for Marin residents. Locally owned and operated. Online users 30 days free for switching. $19.95. [Exp. #169.]

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3C509B-TP0 Single/5/20-Pk 66/293/1,083
3C509B TP&BNC/5/20-Pk 80/353/1,342
3C529B TP/ MCA/5-Pack 244/1,026/5,661
3C592-TP0 EISA/5-Pack 210/832
3C592 EISA Combo/5-Pack 230/916
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INTEL EE Pro/10+ w/o Flash TP/5-Pk 81/359
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SMC EtherEZ 10BT Single/5Pk 93/390
EtherEZ 20-Pk/50-Pk 1,387/3,086
EtherEZ Combo/5Pk/20Pk/50Pk 118/521/1,801/4,011

Fast Ethernet 10/100 MegaBit Cards

3COM 3C515 Etherlink 10/100 ISA Single/5-pk 173/772
3C515 Etherlink 10/100 ISA 20-pk 2,920
3C905TX Etherlink XL 10/100 PCI Single/5-Pk 97/455
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SMC 9432 PCI Single/5/20/50Pk 89/420/1,620/3,604

Fast Ethernet Hubs

3COM 3C250-TX/I 12 100 BASE TX Stackable Hub 1,226
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ASANTE AsanteFast 12-pt 100 BaseT Hub 1,000
COMPAQ Netelligent 1000 100BaseTX 8-port Hub 809
Netelligent 1124 24 port 100BaseTX Hub 1,496
Netelligent 1224 24 port Dual Speed Hub 1,865
INTEL Express 8 port stand alone hub 100BaseTX 480
Express Stackable Hub 12-pt 100T 1,560
Express Stackable Wkgp Bundle(1 Hub, 10 Cards) ... 1,708
Express 10/100 Stackable Hub 12-pt/24-pt 1,135/1,766
SMC EZ Hub 100 8-pt 100BTX Hub 487
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TIGERSTACK 100 24-pt 100BTX SMC5324TX 1,821

Token Ring

3COM 3C319 TokenLink Velocity Single/5-Pk 139/940
3C339 Tokenlink Velocity PCI TR Single/10-pk ... 230/1,830
IBM Auto TR 16/4 Type 3 Single/5-pk 256/1,235
INTEL Token Express Pro 16/4 ISA 277
PROTEON P1394+ Token Ring 16/4/10-Pk 232/2,280
SMC Token Ring Elite 16/4 Single/12-pack 220/2,431
Token Ring Elite passive MAU 8-PT/16-PT 400/608

PCMCIA/Card Bus/Parallel Port Adapters

3COM 3C589 PC Card 10BT/COMBO 143/197
3C689 PC Card TR/5-Pk 366/1,773
3C562 PC Card Enet 33.6 Modem/Fax/5-Pk 332/1,562
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AdvanceStack 12-pt/24-pt 455/862
AdvanceStack Switch Module for 12-pt or 24-pt Hub 683
AdvanceStack Management Module 350
AdvanceStack w/Mgmt Module 12-pt/24-pt 533/938

Ethernet Switches

3COM SuperStack II Switch 1000 12 10BT,1 100BTX . 1,715
SuperStack II Switch 1000 24 10BT, 1 100BTX 2,340

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$1000 price reduction on the 3COM SuperStack II Switch 3000 8 port. Now only $2,058. The 12 Port version now supports 10/100 speeds and is only $ 2,340.

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intel

Intel's Express 10/100 Stackable Hub is only $1,135 for 12 ports and $1,766 for 24 ports.

The 10/100 PCI lan card is only $60 each when purchased as a 20 Pack. PILA8465B-20PK: $1,200

The Network Peripherals NuSwitch FE101 switch allows you to seamlessly connect your existing 10BaseT network to a 100BaseTX network for only $376. The FE200TT features 2 100BaseTX full duplex switch ports for only $232.

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SuperStack II Switch 3000 8-pt 100BTX 2,058
SuperStack II Switch 3000 5-pt 100BFX 6,022
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SuperStack II Desktop Switch 24TP,1 100BTX 1,700
OfficeConnect Switch 140 4-10BT,1-100TX 949
ASANTE ReadySwitch 4 RJ45, 1 Fast Ethernet 1,253
BayStack 301 22 10BT, 2 100BTX 2,727
BayStack 302 8-10BT, 1-100BTX 1,772
BayStack 350T 16PT 10/100BaseTX switch 2,723
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CATALYST 1900 24 10BaseT,2-100BTX 3,083
HP AdvanceStack Switch208 8-10BT,1-100BTX 1,121
AdvanceStack Switch224 24-10BT, 1-100BTX 2,032
AdvanceStack Switch2000 12 100BTX 1,751
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2-100TX, 24-10BT/6-100TX Full Duplex 1,360/1,523
SMC EZSwitch Plus 6-10BT, 2 100BaseTX 958
TigerSwitch 100, 8 port 10/100BaseTX switch 2,187
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Total Switch 8 pt 10BaseT module 904
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C1536 DDS 4mm 2-4GB DAT Int/Ext 719/869
C1599 DDS2 4mm 4-8GB DAT Int/Ext 840/990
C1553 24-48GB Autoloader Int/Ext 2,230/2,530
SONY SDT-9000 4mm DDS3 24GB Int/Ext 1,102/1,138
SDT-9000 w/Arcserve Enterprise Int/Ext 1,860/1,884
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WangDAT 3900 DDS3 12-24 GB DAT Ext 1,440

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3COM Office Connect Boundary Router 3C8841 1,247
Office Connect Remote 510 ENET,ISDN 586
Office Connect Remote 520U ENET, ISDN, POTS 733
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ARTISOFT InSync Modemshare 1/2/4/8Pt.. 108/187/348/592
CISCO 2501 1 ENET, dual serial router (software req) .. 1,906
2514 2 ENET, dual serial router (software req) 2,340
DIGI LANAserver 2E 2 Async 1,290
LANAserver 6E 4 PCMCIA slots; 2 Async 2,152
LANAserver 8E 8 Async 2,588
LANAserver 10E 8 PCMCIA slots; 2 Async 2,896
EMULEX Connect Plus 2 ports/8 Ports 784/2,417
NOVELL NetWare Connect 2 309
NetWare Connect 8/32 pts 1041/3,405
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NetWare Connect 8-port w/Modem and Serial I/O ... 2,912
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BAY NETWORKS Instant Internet 20 Usrs w/Modem ... 1,877
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Network Fax Solutions

3COM Office Connect Fax Server (1L) 1,277
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NOVELL Lanalyzer for Windows 1,021
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CHEYENNE AuditWare for NDS 100/Enterprise 460/851
Directory Mgmt. Combo/Enterprise 850/1,951
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3COM Transcend Workgroup Mgr for NT 463
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P-Net *http://www.p-net.com/* P-Net offers complete design, service, and support for your Web pages, including HTML coding, CGI scripting, and scanning. [Exp. #169.]

Pacific Business Systems *http://www.pbs1.com* Internet access and Web page housing. First month free. (714)452-9110. [Exp. #169.]

Red Shift Internet *http://www.redshift.com* Local calls to San Jose, Santa Clara, Cupertino, Sunnyvale, Mtn. View, and more. Unlimited access $16.95/mo. [Exp. #169.]

RJM & Associates *http://www.rjmassociates.com* Web site creation and hosting for the small business entrepreneur. [Exp. #169.]

SamGel's Web Design *http://members.aol.com/SamGel* Offering Active X, and Java animation for exciting non-static Web design. Custom graphics that are well-designed and clean. [Exp. #168.]

San Francisco Ad Net *http://www.sfadnet.com* Professional Web page design and domain name starting at $99. Get a free ad in our online classifieds. [Exp. #169.]

San Jose Web *http://www.sanjoseweb.com* Web hosting solutions for users of Microsoft FrontPage. [Exp. #168.]

Saturn Services *http://www.saturnservices.com* The economical Web space provider. [Exp. #169.]

Shop Internet Service *http://www.opax.com/sis/* Internet Presence Provider. [Exp. #169.]

SISNA *http://www.sisna.com/sanjose* Unlimited access as low as $17/mo. Special student rates as low as $12/mo. [Exp. #169.]

Taiwan Universal Commerce Information Center *http://www.commerce.com.tw* Taiwan's largest commerce Web server, specializing in trade, industry, business, manufacture, as well as import/export information. [Exp. #168.]

Watson World Wide Enterprises *http://w3ent.com* Web page design, hosting, Internet commerce, marketing, and iMALL advertising. [Exp. #168.]

Web Design & Web Hosting *http://www.webbnet.com/* Exciting Web page design, development, storage, full PPP accounts, data base integration, credit card verification, email/fax gateway. [Exp. #167.]

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Weblink.com *http://www.weblink.com* Offers friendly and professional site design services and standard server use. [Exp. #168.]

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WRM & Associates *http://beaumont.net* Discount fixed-price Web site hosting. We have the best service and pricing on the Net. [Exp. #168.]

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SERVICES & PRODUCTS FOR SALE

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ABC Storybooks *http://w3ent.com/abcstorybooks.htm* Personalized storybooks, as well as Barney, McGruff, Precious Moments, and Presto Sticker books. Disney titles and more. [Exp. #169.]

An Entrepreneur Opportu nity *http://www.aable.cor /ihi/isr/ca/johnf* Seriou income potential working a home. Serious compensa tion and benefit structure [Exp. #168.]

Anabolic Steroids *http:/ www.anabolicsteroids.cor* Anabolic steroids: obtain ing legally, dosages, avoid ing side effects, and muc more. [Exp. #169.]

Annex! BBS *http://www annex.com* Our famou BBS and Web services in friendly online community [Exp. #168.]

Artrade *http://www.a trade.com* Argentine Expor Products. 6,000-company database, real-time infor mation, exportation, busi ness, economy, MERCO SUR. Also in Spanish an Portuguese. [Exp. #169.]

AUS Multicam Systems Australasia *http://mult cam.com.au* Australian designed and manufac tured Multicam router routing tables an machines. [Exp. #168.]

AutoWorld *http://www autoworld.com* Deale invoice and actual marke value on new and used vehicles. [Exp. #169.]

Bates International Moto Home Rental Network *http://www.batesintl.com* Motor home rental information worldwide. [Exp #169.]

Berkeley Square Chauffeur Services *http://www freepages.co.uk/berkeley_ square* Chauffeur hire. [Exp. #169.]

BioMedtrix *http://www biomedtrix.com* Develops and manufactures implants and instruments that address Canine Hip Dysplasia. [Exp. #167.]

Black Hills Virtual Mall *http://www.mall.blackhills. com* Black Hills businesses online. [Exp. #168.]

The Booksmith *http:// www.booksmith.com* San Francisco independent bookstore—computer books, fiction, sci-fi, film, erotica, cookbooks, and sale books. [Exp. #168.]

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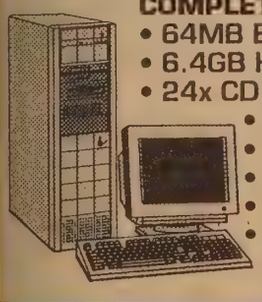

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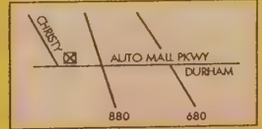

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STB Velocity 3D 4MB VRAM (PCI) 180

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Web Page Listings *continued...*

Bulletin Book Store *http://www.thedawgpound.com/bulletinbookstore/* Buy, sell, and trade Bulletin Books for almost everything. Free posting. [Exp. #169.]

Buy Low, Sell High *http://www.csicentral.com* Incredible products and service. The best source of export products from Asia. [Exp. #169.]

The Car Lot *http://www.webms.net/cars/* Buy or sell used cars on the Internet. Free service includes color photo with ad. [Exp. #168.]

Carvin-Wang International *http://netcentermail.com/scan* Have any positive print, photo, or brochure scanned to JPG, GIF, transparent GIF and emailed back. [Exp. #167.]

CGSS *http://www.cgss.it* Consulting company about environment, safety, health, and quality systems. [Exp. #169.]

Clark Pest Remedy Web Site *http://www.clarkpestremedy.com* Site for promoting safe and effective pest services. [Exp. #169.]

Club Export *http://www.club-export.com* The best export shop for French fashion, accessories, furniture, jewelry, cooking utensils, tourism, and health products. [Exp. #168.]

CMC Web Site *http://www.sitesetters.com/~cmc* Links to other sites offering free gifts, promotions, email, Web pages, etc. Capital Marketing & Communications. [Exp. #169.]

The Clothing Trader Company *http://www.clothingtrader.com* Clothing store on the Internet. T-shirts, clothing, purses, and more. [Exp. #169.]

Collect On Judgements *http://www.sbcr.com/judical.html* Judicious judgement collection. You don't get paid, we don't get paid. [Exp. #167.]

Contractor Network *http://www.contractornet.com* Looking for a contractor? Search our database of local licensed, insured, quality home improvement and commerical contractors of all types. [Exp. #169.]

Cybermation *http://www.cybermationsys.com* SCK-2000 Motion Control System for robotics, lasers, industrial control, and more. [Exp. #167.]

Dan's Optical Supplies *http://www.dansopticals.com* America's largest wholesale optical supplier. [Exp. #169.]

Discreet Medical, Inc. *http://www.discreetmedical.com* Provider of discreet healthcare products, including HIV tests, condoms, hair-loss treatment, and stop-smoking kits. [Exp. #168.]

Ed Voyles Subaru-Hyundai *http://evsubaru-hyundai.com* Ed Voyles Subaru-Hyundai is proud to be a part of a 50-year tradition of automotive excellence in the Atlanta area. [Exp. #168.]

EUROTRADE Tecnologia e Ideas *http://habitat.co.cr/eurotrade* Refrigeration for Central America. [Exp. #169.]

Exceptional Vintage Design *http://www.inch.com/~choreo/choreo* Offering exceptional ladies vintage clothing and accessories from the 1950s and on. [Exp. #169.]

Fantasies In Miniature *http://members.techhead.net.com/miniature* Fine quality miniatures and heirlooms. [Exp. #169.]

Fess Parker Winery & Vineyard *http://mypage.ihost.com/FessParker* Ultra-Premium winery and wine club. [Exp. #169.]

Fingerprint Verification System *http://www.w3bit.com/fpg97/fpg97.html* Learn more about FPG97, a new timecard payroll system using fingerprint verification technology. [Exp. #167.]

For All Your Graphic Needs *http://www.concentric.net/~robb6093* [Exp. #168.]

Fortney Associates, Inc. *http://www.fortneyco.com* Obtain governmental approval of your development project in a timely, cost-effective manner. [Exp. #168.]

Fund Raising And More *http://www.angelfire.com/biz/Fundraising/index.html* We are offering a wonderful fund raising item in the form of grocery coupon certificates. [Exp. #168.]

Galaxy Mall's *http://www.galaxymall.com/retail/greetings* Greeting cards and reproductions of images from original artwork. [Exp. #169.]

Galaxy TeleCards *http://wwwn.netcom.com/~rdrodrig* Information regarding free $0.19/minute rechargeable phone cards and home-based business distributorship opportunities. [Exp. #167.]

Gallucci's Italian Foods *http://www.tasteitaly.com* Importer of fine Italian gourmet and Hungarian foods and wines since 1912. [Exp. #168.]

Geofax *http://geofax.net* Allows people to get their voicemail and fax messages over the Internet as well as listen to their messages, faxes, and email over the phone. [Exp. #167.]

Gift Basket Place *http://www.giftbasketplace.com* Winnie and Lorrie are bringing country values to electronic markets. [Exp. #168.]

Golf Collectibles *http://www.golfcollectibles.com* Unusual gifts for golfers. Golf antiques, photos, videos, Scottish golf, golf art. [Exp. #168.]

Grey's Funeral Home *http://www.angelfire.com/ak/ejgrey* Complete funeral service in Templemore Co., Tipperary, Ireland. [Exp. #168.]

Online Guide

Web Page Listings *continued...*

Gypsytech *http://www.gypsytech.com* Information and products for people who are colorblind or have low color vision. [Exp. #169.]

Hair Transplant Clinic Of Sacramento *http://www.hairtcs.com/* Advanced hair restoration treatment. [Exp. #169.]

Hand-Twisted Hammocks From Guatemala *http://www.creative.net/~t99* High-quality, durable, 100% cotton hammocks. Get one today and relax all summer long. [Exp. #168.]

HARPO Tanning Beds & Accessories *http://www.harpo.net* Intelligent tanning solutions for healthy active adults. [Exp. #169.]

Haynl Elektronik *http://www.haynl.com* Develop, manufacture, and distribute continence training devices. [Exp. #169.]

Helm Pain Care Clinic *http://www.worldlink.com.au/webs/LarryM* Acupuncture and traditional medicine holistic treatment. [Exp. #169.]

The Human Resource Store *http://www.hrstore.com* Outsource your human resource needs. [Exp. #169.]

Image Management Corp. *http://www.imagemanagement.com* Image Management Corp. provides a wide range of document management services including microfilm, imaging, workflow/information management as well as software development and systems integration. [Exp. #169.]

Independent Claims Services. *http://www.2geton.net* Independent insurance adjusters. [Exp. #169.]

Info Products UK *http://www.infoproducts.co.uk* Corporate reseller. [Exp. #169.]

Intuita And Intuita MindLAB *http://www.intuita.com* Intuita specializes in corporate training, personal education products, research, and consulting in intuition and emotional intelligence. [Exp. #169.]

Istanbul Express *http://www.cofishop@istanbulexpress.com* Berkeley-based gourmet coffee, tea, chocolate fudge and truffles at competitive prices. [Exp. #168.]

Italmarket *http://italmarket.com* The finest Italian products, services, and information. [Exp. #168.]

J. Norman Consulting's Web Page *http://www.jnci.com Web* page of J. Norman Consulting, a healthcare consulting firm. [Exp. #169.]

Jaz's Secret *www.cybcon.com/~congo/secret.html* Simply the best Bar-B-Q sauce. Money-back guarantee. [Exp. #169.]

Jet Enterprises *http://home.earthlink.net/~ladyjet* Corporate and personal services: Organize events, seminars, parties, reunions, travel. Project sitting. Procurement. Compile data. [Exp. #167.]

John Harrington—Photographer *http://members.aol.com/JHPhoto* Online portfolio and work samples of this Washington, D.C.-based photographer. [Exp. #169.]

KMB Enterprises *http://www.kmb-enterprises.com* Reseller of computer, CB, and Ham equipment, electronic parts, and more. Online ordering. [Exp. #168.]

KNOWCORP Restructuring *http://www.knowcorp.com* The solution for information overload. [Exp. #168.]

Lavender Pages *http://www.lavenderpages.com/* The largest gay shopping mecca on the Internet—Shop the Castro from the comfort of your own keyboards. [Exp. #168.]

Leach Company *http://www.LeachUSA.com* Manufacturer of refuse collection equipment. [Exp. #169.]

Leading Edge Solutions, Inc. *http://www.sgmp.com/ntr/kvnrdckr* The source for Internet retailing. [Exp. #169.]

LeaseSource *http://www.leasesource.com* Consumer automobile leasing information, referral sources, and utilities. [Exp. #169.]

Lighthouse Professional Group *http://www.lhpg.com* Small business consultants' page offering tips on computers and property management. [Exp. #167.]

Logistics Consulting Group, Inc. *http://www.lcgrp.com* Atlanta-based management consulting firm. [Exp. #168.]

Madely's Collectables & Things *http://members.aol.com/madelys/index.htm* Porcelain dolls and resin figurines. [Exp. #168.]

Make Extra Money From Home Instantly! *http://totalmarketing.com/cyberniche* Our home-based computer Internet business will allow you to make money instantly. No computer or experience required. [Exp. #169.]

Manly Blades *http://www.manlyblades.com.au* Manly Blades is a retail in-line skate and skateboard shop situated on the picturesque beachfront in Manly. [Exp. #169.]

McNee Productions, Inc. *http://mcnee.com* Houston-based film and video tape production with over 28 years of experience. [Exp. #169.]

Medical Devices Ltd. *http://www.mdevices.com* A leading manufacturer of quality Laryngoscopes and Otoscopes both conventional and fiber optic. [Exp. #169.]

New York Plastic Surgery Associates *http://www.nypsa.com* Cosmetic surgery group practice. [Exp. #169.]

Palo Alto Software, Inc. *http://www.palo-alto.com* Palo Alto Software develops, markets, and supports a line of applications designed to produce successful business and marketing plans. [Exp. #169.]

continued on page 197

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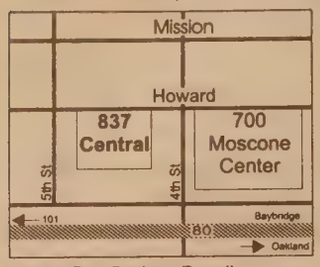

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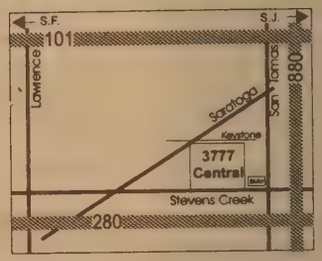

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-Diamond Supra 33.6i Fax/Modem
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-Mitsumi ZW Keyboard
-Microsoft Serial Mouse
-**Microsoft Windows 95** CD
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-Teac 1.44MB FDD
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-Mitsumi ZW Keyboard
-**Microsoft** Serial Mouse
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CM500U
15" (13.7" Viewable Size)
Max Resolution 1280x1024 @ 65Hz
Flat Screen, Non-Interlace, MPRII
$280*

CM620U
17" (15.9" Viewable Size) .28
Max Resolution 1280x1024 @ 60Hz
Flat Screen, Non-Interlace, MPRII
$530*

CM751
19" Monitor .26
Max Resolution 1600x1280 @ 75Hz
Flat Screen, Non-Interlace, MPRII
$1050*

*Advertised price reflect special discount given with the purchase of any Central systems. Previous purchase excluded.

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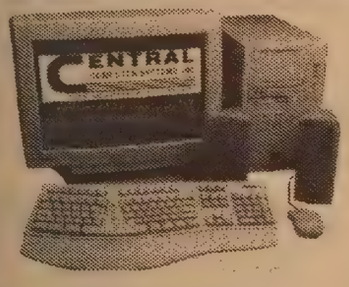
11th ANNIVERSARY CELEBRATION

The success of Central's past 11 years can be explained in 3 commitments we foucs on:

** Our first commitment is to the needs of our customers.*
** Our second commitment is to the benefits of our emloyees.*
** Our third commitment is to the course of the high-tech community.*

Central Power Series



Picture Does Not Represent Exact System Configuration

Software/Shareware Includes:
America Online 3.0, Quicken 5.0 Trial, PointCast Network, Compuserve, Netcom NETCOMplete, Iris Anti-Virus, Juno Free Internet E-Mail Service and Much More!!!

- **-Intel Pentium® II** Processor with MMX Technology
- **-64MB EDO RAM**
- **-ASUS KN97X** Motherboard w/ Two **USB** Ports
- -Western Digital **4GB EIDE HDD**
- **-16X** max CD-ROM Drive / Teac 1.44MB FDD
- **-Matrox Millennium II** 4MB WRAM
- **-Sound Blaster AWE64** Value
- **-US Robotics 56k** Internal Fax/Modem
- **-Microsoft Windows 95** CD
- **-Yamaha M7** Multimedia Speakers
- -Microsoft **Natural Keyboard / IntelliMouse**
- -ATX #A2 Mid-Tower Case w/ 235W Power Supply
- **-Monitor not included**

Pentium® II 266 MHz **$2669**

233MHz Pentium® II **$2555**

Central SOHO Series

- **-Intel Pentium®** Processor
- **-32 MB** EDO RAM, **512k** Cache
- **-ASUS P55T2P4,** w/ 430HX chipset
- -Western Digital **3GB** EIDE HDD
- **-16X** max CD-ROM Drive, Teac 1.44MB FDD
- -Matrox **Mystique 4MB** WRAM PCI
- **-Sound Blaster** 16 PnP
- **-US Robotics** Sportser **56k** Int. Fax/Modem
- -SD202 Multimedia Speakers
- -Win104 Keyboard / Microsoft Serial Mouse
- **-Microsoft Windows 95** CD
- -#3 IWG500 AT Mid-Tower Case
- **-Monitor not included**

166MHz Pentium® MMX **$1439**

166MHz Pentium® **$1339**

Central Gaming Series

- **-Intel Pentium® MMX Processor**
- **-32MB** EDO RAM, **512K** Pipeline Burst Cache
- **-SuperMicro P5MMA** w/ Two **USB** Ports
- **-Quantum 2.1GB** EIDE HDD
- **-16X** max CD-ROM Drive / Teac 1.44MB FDD
- **-Diamond Stealth 3D 2000 4MB** PCI
- **-Diamond Monster 3D 4MB** PCI
- **-Sound Blaster AWE64** Value
- **-Diamond Supra 33.6i** Internal Fax/Modem
- -Microsoft **Side Winder 3D Pro**
- **-Microsoft Windows 95** CD
- **-Altec ACS45** Speakers w/ **Sub-Woofer**
- -Microsoft **Natural Keyboard / IntelliMouse**
- -ATX #A2 Mid-Tower Case w/ 235W Power Supply
- **-Monitor not included**

Picture Does Not Represent Exact System Configuration

Software/Game Includes:
MechWarrior II,VR Soccer, Descent!! Hyperblade, Whiplash, EF2000, Compton's Interactive Encyclopedia and much more!!!

Pentium® 200MHz w/ **MMX** Technology **$1879**

166MHz Pentium® MMX **$1665**

200MHz Pentium® **$1699**

Central Graphic Series

- **-64MB** EDO RAM, **512k** Pipeline
- **-ASUS TX97X** Motherboard, w/ Two **USB** ports
- **-Diamond FirePort** Ultra Wide **SCSI-3** Controller
- **-IBM** DCAS-34330 **4.3GB**-UW SCSI HDD
- **-12X SCSI** CD-ROM Drive / Teac 1.44MB FDD
- **-Matrox Millennium II 4MB WRAM**
- -Vibra 16 / **Yamaha M7** Multimedia Speakers
- -Diamond Supra 33.6i Internal Fax/Modem
- -Win104 Keyboard / **Microsoft IntelliMouse**
- **-Microsoft Windows 95** CD
- **-#A2 ATX Mid-Tower Case w/ 235W**
- **-Monitor not included**

200MHz Pentium® **$2149**

200MHz AMD K6 **$2219**

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HARDWARE

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8X Parallel Port CD Rom / w. Sound Card ... 229/309
10X Pocket Parallel Port ... 275
12X Max Pocket CD Drive PCMCIA ... 315
12X Parallel Port CD Rom / w. Sound Card ... 259/345

CREATIVE LABS
Impression Multimedia Kit:
- Sound Blaster 16 w. Toshiba 16X & CD Bundle ... 239
- Sound Blaster 32 w. Toshiba 16X & CD Bundle ... 269
Midi Kit + Software ... 65
Sound Blaster 16 IDE, plug & play ... 59
Sound Blaster 32 PNP IDE oem ... 79
Sound Blaster 64 AWE Gold ... 195
Sound Blaster 64 Value Pak ... 99

MITSUMI
FX800S 8X IDE Int ... 75
FX140S2 16X IDE Int ... 95

NEC
CDR-1610 16X SCSI Int oem ... 159
*MultiSpin 6X Int 4CD Rom Changer oem ... *(85)*

PANASONIC
CR-585 24X IDE Int ... 119
KXL-783A 8X CD PCMCIA ... 389

PLEXTOR
PX-12CSi 12X SCSI Int (Caddy) ... 259
PX-20X SCSI Int (Tray) ... 245

PIONEER
DVD101 IDE Int ... 199
DVD301 SCSI Int ... 399

SONY
CDU-511 16X IDE Int ... 99
524E 24X IDE Int ... 119
PRD-650 Portable 6X w. PCMCIA Kit ... 345

TEAC
CD-516E 16X IDE Int ... 95
CD-516S 16X SCSI Int ... 159

TOSHIBA
5701 12X SCSI Int ... 129
6002 16X IDE Int ... 99
XM-6102B 24X IDE Int ... 125
XP3801 15X SCSI Int ... 149

TURTLE BEACH
Multi-Sound Fiji 20-bit / w. Digital I/O ... 275/329
Multi-Sound Pinacle 20-bit / w. Digital I/O .. 375/425
Tropez Sound 32 Voice ... 145
Wave Table Sound 32 ... 99

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CD Caddy ... 3.99
CD Jewel Case for 1 / 2 / 3-CD ... 0.55/0.65/0.55
CD Wetsuit (by Kensington) for 12 / 24-CD 9.95/14.95
ECS 12X IDE Int (user s/w upgradable to 24X) ... 89
ESS 16 IDE Sound Card ... 39
Fujitsu Stereo Sound Card PCMCIA ... 199
Gravis Ultrasound Plug & Play ... 135
Gravis Ultrasound Pro, PNP ... 175
J-Bond ProActive 32 Elegancy PNP ... 45
*Television: TeleSound EX16 IDE ... *(68)*

WRITABLE CD DRIVES :

*Adaptec ASW-CD Creator (software) ... *(169)*
*Adaptec InCat Easy CD Pro (s/w) ... *(99/259)*
Elektroson: Gear (CD creator s/w) ... 95
*HP SureStore C6020i, read 6X, write 2X, Int ... *(395)*
HP SureStore C6020e Ext Parallel / SCSI ... 495/495
Panasonic PowerDrive Optical : 2X Write, 4X Read Int / Ext ... 485/615
- Writable Optical Disk ... 49.95
Philips CDD-2600 Int / Ext ... 665/785
Ricoh CDR-6200S 2X/6X Int ... 545
Yamaha CDR-400 6X/4X Int / Ext ... 745/865

*3M /Pioneer / TDK Writable CD (74 min.) . *(5.95) ea*
- 10-Pack ... 58
Kodak CDR 74 min. / 10-pk / 25-pk ... *(5.45)/52/125
Sony Writble CD (74 min.) ... 6.95 ea
Traxdata CDR 74 min. / 10-pk ... 4.50/43

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Altec ACS45 w. Sub-woofer ... 79
Altec ACS51 / ACS52 / ACS53 ... 65/85/125
Altec ACS150 / ACS300.1 ... 99/199
Altec ACS500 ... 295
EP-70 Magnetically Shielded (70W) ... 29
EP-280 Amplified Speakers (60W) ... 29
Koss Speakers oem ... 29
Labtec Stereo LCS-150 / LCS-600 ... 18.95/24.95
Labtec 1224 Space Server 3D Stereo (10W) ... 69
*MLF-CP55 Mini Speakers (4W) ... *(4.99)*
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MC2: Condensed Microphone ... 6.95
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SD980: 3-Way Speakers, 180W ... *(39.95)
SP2: Supreme Sound Speakers w. KC1 ... 19.99

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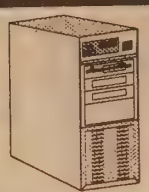
2. CASE



#1: Baby AT w. 230W Power ... 49
#2: Baby Tower w. 230W Power ... 45
#3: IWG500 Mid Tower w. 230W ... 65
#4: Mid Tower w. 250W Power ... 55
#5: CF-8502A Mid Tower w. 250W, Open Side ... 69
#6: GT212 Mid Tower, 250W, Open Side, 2 fans, White . 105
#7: GT210 Mid Tower, 250W, Open Side, 2 fans, Black . 109
#8: Full Tower w. 250W, 2 fans ... 85
#9: CF-8501S Full Tower w. 250W, Open Side ... 89
#10: KS-A5561 Full Tower, 250W, Slide Open, 2 fans ... 115
#11: Full Tower, 300W, with Wheels ... 149
#12: GT312 Full Tower, 300W, Open Side, 2 fans, 8 Bay Slots, PS/2 power, White ... 155
#13: GT300 Full Tower, 300W, Open Side, 2 fans, Black . 165
#14: Mini Tower w. 250W Power ... 49
#15: Mid Tower w. IDE Mobile Rack ... 69
#A1: ATX CF-8502A Mid Tower, 235W, Open Side . 85
#A2: ATX mini-mid Tower w. 230W ... 89
#A3: ATX AT-601B Mid Tower w. 235W ... 89
#A4: ATX-T5 Mid Tower w. 235W, Slide Open ... 89
#A5: ATX CF-8501S Full Tower, 235W, Open Side . 109
#A6: ATX GT-232XC Mid Tower w. 235W ... 125
#A7: ATX GT-312 Full Tower w. 235W ... 159
#A8: ATX PC-268A Desktop w. 235W ... 79
#A9 ATX PC-968A Mid Tower w. 235W ... 79
#A10 ATX PC-768A Full Tower w. 250W ... 105
#A11: ATX PC-868, Mid Tower w. 250W ... 75

HDD EXTERNAL CASING:

3.5" HD External Casing ... 52
5.25" or CD Rom External Casing ... 55
1 half ht, 50W, SCSI-2 ... 82
2 half ht or 1 full ht for PC, 80W, w/o cable ... 82
4 half ht or 2 full ht, 200W, w. cable ... 109
4 half ht or 2 full ht, SCSI-3 ... 139
7 half ht or 3 Full, SCSI-3 ... 209
8 half ht or 4 full ht, 250W, w. cable ... 225
MAP-431-1 1 half ht & fan, 50W, SCSI-3 ... 92
PD-250 Para Disk, 2.5", IDE Kit, carrying bag ... 57
PD-350 Para Disk, 3.5", IDE Kit ... 67
PD-525EZ Para Drive, CD-Rom Kit, carrying bag ... 65

ANTEC
KS-011+RPP3002: 19 Bay Server (9 front,10 int. bay) 300W,Hot-Swap + Redundant P/S, 2 Cooling Fan . 599
KS-011+RPT600: 19 Bay File Server (9 front,10 int. bay) 300W Redundant Vertical AT P/S, 2 Cooling Fan . . 479

OTHERS
19" Indsutrial Rackmount Chassis ... 265
19" Industrial Rackmount Chassis fot ATX, 250W . 349

3. CONTROLLER

adaptec
2940 SCSI PCI w. Kit oem ... 209
2940U SCSI PCI w. Kit oem / reg ... 225/249
2940UW Ultra Wide-SCSI PCI w. Kit oem ... 265
AHA3940U PCI Multi-Channel SCSI ... 399
AHA3940UW Ultra-Wide w. Kit ... 479
APA1460 Slim PCMCIA SCSI ... 165
ASW-EZ SCSI 3.1 for Dos & Windows ... 59
ASW-EZ SCSI 4.0 for Win'95 ... 69

ADVANSYS
ABP5140 SCSI-2 ISA 8Mb/s ... 115
ABP930 Ultra SCSI PCI 20Mb/s ... 135

ASUS
PCI-AS2940UW SCSI & 16-bit audio adapter ... 215
SC200 SCSI-2 PCI (w. NCR chips) ... 79

COREL
Corel SCSI Software v2.5 ... 85

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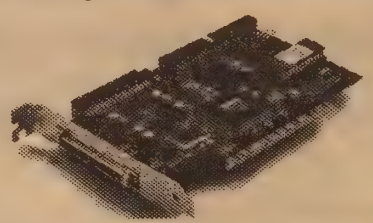

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KOUWELL
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LDP (Lomas Data)
*Fast PCI SCSI-2 10Mb/s ... *(115)*
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Basic SCSI DB25 PCMCIA ... 99
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SIIG (5 yr. warranty)
CN2419 EIDE 4HD/ 2FD 16 bit ISA ... 59
CN2420 EIDE 4HD 16 bit ISA ... 39
CN2424 EIDE 4HD/ 2FD/ 2S 1P 1G/ 16550 & IEEE1284 . . 79

OTHERS
DIAMOND Fire Port 40 Ultra-SCSI PCI ... 159
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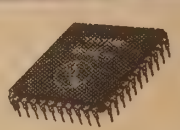
WD Fast SCSI-2 PCI, 10Mb/s ... 79

4. CPU



AMD
AMD-X5-133 ... 49
AMD-K5-75 ... 45
AMD-K5-133 / AMD-K5-166 ... 89/119
AMD-K6-166 / AMD-K6-200 ... 229/359
AMD-K6-233 ... 539

CYRIX (w. fan)
6x86-P150+ (3.5V) ... 94
6x86L-P150+ (2.8V) ... 99
6x86-P166+ (3.5V) ... 98
6x86L-P166+ (2.8V) ... 105
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486 DX4-100 ... 49
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MMX-200Mhz Pentium® ... 469
MMX-166Mhz Pentium® (3 yr. warranty) ... 309
MMX-200Mhz Pentium® (3 yr. warranty) ... 535
P54C-120Mhz Pentium® ... 99
P54C-133Mhz Pentium® ... 129
P54C-150Mhz Pentium® ... 139
P54C-166Mhz Pentium® ... 169
P54C-200Mhz Pentium® ... 279
*133MHz Pentium® w. fan (3 yr. warranty) ... *(155)*
*150MHz Pentium® w. fan (3 yr. warranty) ... *(179)*
166MHz Pentium® w. fan (3 yr. warranty) ... 225
200MHz Pentium® w. fan (3 yr. warranty) ... 285
Pentium® II 233Mhz (3 yr warranty) ... 799
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Pentium® II 266Mhz (3 yr warranty) ... 899
Pentium® Pro 180Mhz w. fan ... 469
Pentium® Pro 180Mhz w. fan (3 yr. warranty) ... 469
Pentium® Pro 200Mhz w. fan & 256k ... 509
*Pentium® Pro 200Mhz w. fan, 256k, 3 yr warranty ... *(569)*
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Pentium® 83Mhz (fr 486-33 or DX2-66) ... 199
Pentium® 133Mhz (fr P-60 / 66) ... 199
Pentium® 150MMX (fr P-75 / 90) ... 335
Pentium® 166MMX (fr P-100) ... 365

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- w. Fractal Dabbler ... 155
Art Pad II 4x5, for MAC ... 139
*Art Z II 6x8, w. Erasing Ultra Pen for PC ... *(299)*
- for MAC ... 309
Art Z II 6x8, w. Fractal Expression ... 365
Art Z II 12x12, w. Erasing Ultra Pen for PC ... 415
- for MAC ... 429
Art Z II 12x12, w. Fractal Expression ... 479
Art Z II 12x18, w. Erasing Ultra Pen for PC ... 685
UD-2 Mac Kit ... 45
UD-520 4-button Cursor ... 109
UP-201 Pressure Stylus ... 49.95
UP-701E Erasing Ultra Pen ... 69.95

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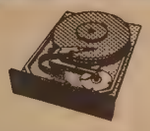
6. DRIVE



FLOPPY DRIVE :

O.R. Technology
120MB 3.5" 159

TEAC
1.2MB 5.25" 43
1.44MB 3.5" / w. frame 27/31

HARD DRIVE :

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M1636TAU 1.2GB 10ms 128k, 5400rpm, IDE 159
M1623TAU 1.7GB 10ms 128k, 5400rpm, IDE 169
*M1624TAU 2.16GB 10ms 128k, 5400rpm, IDE . *(189)*
M1638TAU 2.56GB 10ms 128k, 5400rpm, IDE 209
M2954QAU 4GB 8ms Wide-SCSI 719
M2954SYU 4GB 8ms 512k, 7200rpm, SCSI-2 659
*M2949SYU 9GB 10ms 512k SCSI ..... *(1155)*

IBM
DCAS-32160 2GB 8.5ms Ultra-Wide SCSI, 5400rpm 399
DCAS-34330 4.3GB 8.5ms Ultra-Wide SCSI, 5400rpm... 549

KINGSTON
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PCMCIA 340MB IDE, type III 445

Maxtor
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MXT-82187A 2.1GB 12ms 128k IDE 195
MXT-85120A 5.1GB 10ms 256k IDE 385

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Atlas-2 45500S 4.3GB 8ms 512k Ultra SCSI 735
FBTM-1280A 1.2GB 12ms 128k IDE 179
ST-32160A DMA 2GB 10ms 128k IDE 205
FBTM-3200AT 3.2GB 11ms 128k IDE 245
ST-34320A DMA 4GB 10ms 128k IDE 325
FBTM-3200S 3.2GB 10ms 64k SCSI 319
Atlas-2 2275S 2.1GB Ultra-Wide SCSI 389
Atlas-2 4550W 4.3GB 8ms 512k Ultra-Wide-SCSI .. 749

Seagate
ST-31276A 1.2GB 12ms 64k IDE 1" ht. 165
ST-32132A 2.1GB 12.5ms 128k IDE 185
ST-33240A 3.2GB IDE 245
ST-51080N 1GB 12.5ms 128k SCSI 245
ST-32171N 2GB Ultra-SCSI 499
ST-32171W 2GB Ultra-Wide SCSI 525
ST-34371N 4GB Ultra SCSI 749
ST-34371W 4GB Ultra-Wide SCSI 789
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ST-19171N 9GB Ultra SCSI 1310
ST-19171W 9GB Ultra-Wide SCSI 1345

TOSHIBA (notebook drive)
PCMCIA 262MB IDE 425
MK1401MAV 1.4GB IDE 2.5" 225
MK2103MAV 2GB 13ms 128k IDE 2.5" 359

WESTERN DIGITAL

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WD-33100 3GB 12ms 128k IDE. 225
*WD-11200 1.2GB 11ms 128k IDE ..... *(169)*
WD-21600 1.6GB 10ms 128k IDE 185
WD-22000 2.1GB 12ms 128k IDE 205
WD-32500 2.5GB 12ms 128k IDE 219
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WDC-E4360 4.3GB Ultra SCSI 739
WDC-E4360 4.3GB Ultra-Wide SCSI 769

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Zip Zoom SCSI Accelerator Card (for Ext.) 46

7. I/O CARD

FUJITSU
PCMCIA Serial Card 135

KOUWELL
KW508-E Single Parallel Port 12
KW524J-1 2S /2P w. 16550 chips 29
KW524L 2S(FiFo) / 1P / 1G w. 16550 chips 32

QUICKPATH
FlexPort 42: 4 Serial / 2 Parallel (Bi - Dir), 16550 99
FlexPort 22EX: 2 Serial / 2 Parallel / 16650 99
PortFolio 550E: 13 Port Multi-I/O, 4 Serial/ 4 FDD/ 2 Parallel/ 2 IDE/ 1G 125

SIIG
Cyberpro 2S Highspeed w. 16650 chips..... 55
Cyberpro 4S Highspeed w. 16650 chips..... 89
IO1809 2S/1P w. 16550 chips 39
IIEEE 1284 EPP/ ECP/ Parallel Port..... 32

STB 4-COM
4 Serial, 16 bit, 16550, support Com 1-8, IRQ 99

8. KEYBOARD

FOCUS
FK2001 104 for Win'95 32
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FK8200 124 Key w. calculator 44
FX9200W 124 Key w. Trackball & calculator 48

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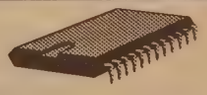
OTHERS
Antec 104: White / Black 21.50/39
BTC 5100 Key Mini (80-key) 35
EZ Key Natural Keyboard 36
Maxi 101 33
Mitsumi 104 Model-ZW 16.50
*Northgate Omnikey Evolution/Glide Point ..... *(95)*

9. MEMORY



DIMM
4 x 72 - 60ns, 168-pin (32MB) 209
8 x 72 - 60ns, 168-pin (64MB) 409
Unbuffer SDRAM 2 x 64 - 10ns 99
Unbuffer SDRAM 4 x 64 - 10ns 179

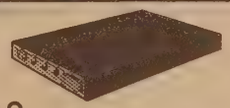
SIMM
1 x 9 - 60ns / 70ns (1MB) 8/8
4 x 9 - 60ns (4MB) 25
1 x 36 - 60ns (4MB, 72 pin) 33
2 x 36 - 60ns (8MB, 72 pin) 69
4 x 36 - 60ns (16MB, 72 pin) 99
8 x 36 - 60ns (32MB, 72 pin) 189
16 x 36 - 60ns 449
EDO 1 x 32 - 60ns (4MB)..... 22
EDO 2 x 32 - 60ns (8MB)..... 35
EDO 4 x 32 - 60ns (16MB)..... 65
EDO 8 x 32 - 60ns (32MB)..... 129
Non Parity : 1 x 32 - 60ns 22
Non Parity : 2 x 32 - 60ns 35
Non Parity : 4 x 32 - 60ns 65
Non Parity : 8 x 32 - 60ns 129
Non Parity : 16 x 32 - 60ns..... 389

NOTEBOOK MEMORY (3rd party)
for AcerNote 374, Nuovo 971/ 972
- 8MB / 16MB / 32MB 95/145/499
for AST Ascentia 950N
- 8MB / 16MB 115/165
for AST Ascentia J30 / J50
- 8MB / 16MB / 32MB 85/139/258
for AST Ascentia P30/ P50
- 8MB / 16MB 115/175
for Compaq Armada 4120 / 4130
- 8MB / 16MB / 32MB 95/155/269
for Compaq Contura 410 / 420 / 430
- 4MB / 8MB / 16MB 75/99/155
for DEC HiNote 433 / 450 / 475
- 4MB / 8MB / 16MB 59/89/145
for HP Omnibook 5000 / 5500
- 8MB / 16MB / 32MB 109/165/285
for IBM Thinkpad 365X / 560 / 760EX/ ED/ EL
- 8MB / 16MB / 32MB 99/155/525
for NEC Versa 6030X / H
- 8MB / 16MB / 32MB 105/165/295
for Panasonic CF-62EX / 25EX
- 8MB / 16MB / 32MB 95/145/499
for Toshiba T1900 / T4500 / T200CS
- 4MB / 8MB / 16MB 89/109/165
for Toshiba Portege 610CT
- 8MB / 16MB / 32MB 99/149/259
for Toshiba Portege 650/ 660CDT
- 8MB/ 16MB / 32MB 95/145/275
*for Toshiba Tecra 700 - 32MB ..... *(235)*
for Toshiba Tecra 710/ 720/ 730CDT
- 8MB / 16MB / 32MB 99/149/259
for Toshiba Satellite 430CDS/CDT / 100 / 200CDS/CDT - 8MB / 16MB / 32MB 99/149/259

PCMCIA Flash RAM Card
4MB / 8MB / 10MB / 16MB 129/165/179/235

OTHERS
Memory for Laser Printer upgrades ..... Call

10. MODEM & FAX



APOLLO
PCMCIA 33.6 w. AT&T chipset 115

BOCA

Anniversary SALE (5-in-1 multimedia)
SE1440 14.4 VSP Sound Express Fax .... *(89)
SE14SRS 14.4 Sound Expression Int ..... *(99)
SE34SRS 28.8 Sound Expression Int .... *(149)

DIAMOND
Supra Express 33.6 Fax PNP & Void Int oem 69
Supra Express 33.6 Fax PNP Int / Ext 75/89
Supra Express 56k Fax PNP Int / Ext 139/155
SupraNet Commander ISDN 235

FUJITSU
PCMCIA 28.8 v.34 Type II 279
PCMCIA ISDN 325

HAYES (Prac. Peripherals)

Anniversary SALE
Accura 33.6 Fax Int / Ext 149/159
Optima 33.6 v.34 Fax Int 239
Optima 288 v.34 PCMCIA w. EZ jack ... *(145)
PC288HC 28.8 v.34 Fax, 230K DTE Int . *(219)
PC288MT 28.8 v.34 Fax Ext..... *(199)
PM288HC 28.8 v.34 Int ..... *(85)
PM336HC 33.6 Int 99
PM336MT 33.6 Ext 119

MEGAHERTZ
XJ1336 PCMCIA 33.6 Flash upgradable 209
XJ1560 PCMCIA 56k 224
XJ4288M PCMCIA Fax, cellular w. Motorola cable . 249
*XJ4336 Cellular Capable 33.6 ..... *(249)*

MICROCOM
*Deskporte 28.8S V.34 Fax Ext ..... *(115)*
*Deskporte 28.8P V.34 Ext Parallel..... *(165)*
Officeporte 33.6 Voice ASVD Ext 155

MOTOROLA

Anniversary SALE
BitSerfer ISA ISDN ..... *(245)
BitSerfer TA210 ISDN Ext ..... *(249)
BitSerfer Pro ISA ISDN Int ..... *(298)
BitSerfer Pro ISDN Easy Ext ..... *(285)
BitSerfer Pro ISDN Multilink PPP Ext .. *(299)
Modem Serfer 33.6 Int / Ext 129/145
Modem Serfer 56k Int / Ext 142/159
Montana PCMCIA 33.6 ..... *(179)
Montana 33.6 w. cellular cable ..... *(199)
Online Serfer 28.8 Fax Int / Ext ..... *(95/99)
Premier 33.6 Modem Int / Ext .... *(179/199)
Voice Serfer 33.6 Int / Ext 149/165

SIMPLE TECHNOLOGY
Communicator 56k PCMCIA w. Voice & Cellular Cap... 199

US Robotics

Anniversary SALE
Courier I-Modem #1 with Analog Int / Ext .. 295/355
Courier I-Modem #2 v.34 w. NT1 Int / Ext *(215)/335
Courier I-Modem #3 v.34 Int / Ext ..... 235/*(265)
*Courier V. Everything 33.6 Int / Ext ..... *(215/229)*
Courier V. Everything 56k Int / Ext 239/275
Sportster ISDN 128k Int 245
Sportster 28.8 Win Modem Int 99
*Sportster v.34 33.6 Fax Int oem / reg..... *(99/135)*
*Sportster v.34 33.6 Fax Ext ..... *(155)*
Sportster v.34 33.6 Fax for MAC 215
Sportster v.34 33.6 Fax/ Voice / Speaker Phone Int oem.. 119
Sportster v.34 33.6 Fax/ Voice / Speaker Phone Int reg .. 149
Sportster v.34 33.6 Fax/ Voice Mail/ Speaker Phone Ext.. 179
Sportster 56K Int / Ext 179/199
Sportster 56k w. Voice Int / Ext 199/219
Total Control Modem: Pool/8 2950
Total Control Modem: Pool/16 5560

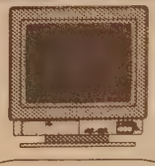
WISECOM

Anniversary SALE
WS-2814IS6W 28.8 Data/ Fax/ Voice Int 65

XIRCOM
*CM-28 28.8 Fax PCMCIA ..... *(179)*
CM-33 33.6 Fax PCMCIA 229

ZOOM
*#620 Comstar 28.8 Voice v.34 Tel Int ..... *(125)*
*#2805 33.6 Fax Modem Int ..... *(95)*
*#2836 33.6 Fax Modem Ext ..... *(105)*

11. MONITOR



20 big Monitors on display

ACER
78iE 17" 1600 x 1200 .26 NI 545

ARTMEDIA (Sony oem)
TX1664 15" 1280 x 1024 .25 NI 359
TN1885 17" 1600 x 1280 .25 NI 769
TX1864 17" 1280 x 1024 .25 NI 599
GT960T 20" 1600 x 1200 .25 NI 1489

(price) ..... SPECIALS , while supplies last

http://www.centralcomputer.com for update price & catalog

TN2185T 20" 1600 x 1200 .30 NI 1285

DIGIVIEW

Anniversary SALE

HR-1709D 17" 1600 x 1200 .25 NI 595

HR-1434 14" 1024 x 768 .28 NI 189
HR-1508+ 15" 1280 x 1024 .28 NI 249
HR-1708 17" 1280 x 1024 .28 NI 465

HITACHI SuperScan

*CM500U 15" Flat 1280 x 1024 .28 NI, 65hz ... *(289)*
CM620U 17" Flat 1280 x 1024 .28 NI 545
CM630U 17" Flat 1600 x 1200 .28 NI 675
CM751 19" 1600 x 1200 .26 NI, 75hz 1069
CM2011M 20" 1600 x 1200 .28 NI 1165
CM800U 21" 1600 x 1200 .22 NI 1399
CM802U 21" 1600 x 1200 .22 NI 1675
CM803U 21" 1800 x 1440 .22 NI, 77hz 1725

IBM (touch screen)

C41T 14" Touch Monitor .28 895
G50T 15" Touch Monitor .28 985
G70 17" 1280 x 1024 .28, 60hz, FST 785
G70T 17" Touch Monitor .28 1465
P70 17" 1600 x 1200 .26, 60hz 995
G200 20" 1600 x 1200 .28, 60hz 1385
P200 20" 1600 x 1280 .31, 60hz 1785
P201 20" 1600 x 1200 .26mm, 85hz 2445

IIYAMA

Anniversary SALE

MF-8515G 15" 1280 x 1024 .28 NI..... 329
MF-8617E 17" 1600 x 1200 .26, 69hz, NI .. 575
MT-9017E 17" 1600 x 1200 .25, 72hz, NI *(645)
MF-8221E 21" 1600 x 1280 .22, 76hz, NI . 1285
MF-8721 21" 1800 x 1440 .22 NI, 74hz ... 1435
MT-9021E 21" 1600 x 1280 .30, 76hz, NI . 1359

IMPRESSION

3 Plus 14" 1024 x 768 .28 NI 189
5 Plus 15" 1280 x 1024 .28 NI 259
7 Plus 17" 1280 x 1024 .28 NI 475

KFC

*CA1515DS 15" Flat 1280 x 1024 .28 ..... *(299)*

KOMODO (2 yr warranty)

Anniversary SALE

*H40 14" 1024 x 768 .28 NI, Digital ..... *(185)*
*H51 15" 1280 x 1024 .28 NI, Digital ..... *(235)*
H73 17" 1280 x 1024 .28 NI, Digital 459

MAG

*DX15T 15" 1280 x 1024 .26 NI ..... *(359)*
DJ700 17" 1280 x 1024 .26 NI 579
*DJ702 17" 1280 x 1024 .26 NI ..... *(569)*
DX700T 17" 1280 x 1024 .25 665

MAXTECH (GVC, 3 yr warranty)

XT-4888 14" 1024 x 768 .28 189
XT-5988 15" 1280 x 1024 .28 NI 245
XT-7800 17" 1280 x 1024 .28 NI 459

NANAO

FX-C5 17" 1280 x 1024 .26 NI 759
FX-C6 17" 1280 x 1024 .26 NI 839
T2.17TS 17" 1280 x 1024 .25, Diamondtron 899
TX-C7S 17" 1600 x 1200 .25, Trinitron 999
TX-D7S 20" 1600 x 1280 .30 NI 1675
FXE8 21" 1600 x 1280 .26 NI 2245

NEC

*M500 15" 1280 x 1024 .25 NI ..... *(369)*
XV15 Plus 15" 1024 x 768 .28 369
*M700 1280 x 1024 .25 NI ..... *(759)*
P750 17" 1600 x 1200 .25 859
*XV17 Plus 17" 1600 x 1200 .28 NI ..... *(679)*
*E1100 21" 1600 x 1200 .28 NI ..... *(1349)*
*P1150 21" 1600 x 1200 .25, 75Hz. ..... *(1549)*
XM3750 37" 1024 x 768 Multimedia Monitor 5475
XP3778 37" 1280 x 1024 Data Monitor 7795

NOKIA

*447L 17" 1024 x 768 .28 NI ..... *(615)*
447XAV 17" 1600 x 1280 .25 NI 985
*447Xi 17" 1600 x 1280 .25 NI ..... *(825)*
445XAV 21" 1600 x 1280 .26 NI 1845
445Xi 21" 1600 x 1200 .26 NI 1739

OPTIQUEST

V655 15" 1280 x 1024 .28 NI, Digital 329
V775 17" 1600 x 1200 .26 NI 625
2082DC 20" 1600 x 1200 .28 1199

PANASONIC

*P17 Pro 17" 1600 x 1280 .25 NI ..... *(715)*
*PM17 17" 1280 x 1024, Multimedia ..... *(619)*
S17 17" 1024 x 768 .27 579
E21 21" 1600 x 1280 .25 NI, 67hz 1385
*P21 Pro 21" 1800 x 1440 .25 NI, 71hz ..... *(1675)*
S21 21" 1600 x 1280 .25 NI, 72hz 1495

PRINCETON

EO70 17" 1280 x 1024 .28 NI 525
EO75 17" 1600 x 1280 .26 NI 619
Ultra 17 Plus 17" 1600 x 1280 .8 NI 579

PROTON

*GM1764 17" Flat 1280 x 1024 .28 NI ..... *(475)*

SAMSUNG

17GLSi 17" 1600 x 1280 .26 NI, TCO92 725
20GLSi 20" 1600 x 1200 .28 NI, at 66Hz 1235

SCEPTRE (3 yr warranty)

P401 14" 1024 x 768 .28 NI, Digital 199
P531 15" 1280 x 1024 .28 NI, Digital 275
P73A 17" 1280 x 1024 .26 NI, Digital 499
P73B 17" 1280 x 1024 .26 NI, Digital, Black 525

LCD PANEL: (1 yr warranty)

CD-1011S 11.3" DSTN, 640 x 480 899
CD-1111S 11.3" DSTN, 800 x 600, 64k color 999
CD-1112T 12.1" TFT, 800 x 600, 256k color 1895

SHAMROCK

SRC-1407 14" 1024 x 768 .28 NI, Digital 189
SRC-1502L 15" 1280 x 1024 .28 NI, Digital 245
SRC-703LD 17" 1280 x 1024 .28 NI, Digital 459
SRC-705 17" 1600 x 1280 .26 NI, Digital 485

SONY

CPD-100SF 15" 1280 x 1024 .25, 60hz 385
CPD-100SX 15" 1280 x 1024 .25, 60hz 345
*17SEII 17" 1600 x 12000 .25 NI, plug & play ... *(869)*
CPD-200SF 17" 1280 x 1024 .25 NI, 75hz 769
CPD-200SX 17" 1280 x 1024 .25 NI, 60hz, PNP 675
20SEII 20" 1600 x 1200 .25 NI 1799
*CPD-300SFT 20" 1280 x 1024 .30, 80hz ..... *(1429)*

TVS

9" 1024 x 768 VGA Mono 119

ViewSonic

E641 14" 1024 x 768 .28 NI 219
E655 15" 1024 x 768 .28 NI 295
*15GA 15" 1280 x 1024 .28 NI, built-in speakers . *(375)*
15GS 15" 1024 x 768 .28 NI 339
17EA 17" 1280 x 1024 .28 NI, plug & play 565
*17GA 17" 1280 x 1024 .27 NI, plug & play .... *(625)*
*17PS 17" 1600 x 1280 .25 NI, Pr'P, TCO ..... *(675)*
G771 17" 1280 x 1024 .27 NI 569
GT770 17" 1280 x 1024 .25 645
*PT770 17" 1600 x 1280 .25 ..... *(699)*
PT775 17" 1600 x 1280 .25, Sonictron 825
*G800 20" 1600 x 1280 .28 NI ..... *(1035)*
GT800 20" 1600 x 1280 .30, Sonictron 1129
*G810 21" 1600 x 1280 .30 ..... *(1349)*
*P810 21" 1600 x 1280 .25 ..... *(1349)*
*P815 21" 1800 x 1440 .25 NI ..... *(1499)*
*PT813 21" 1600 x 1280 ..... *(1449)*
*29GA 29" 1280 x 1024 .75 stripe pitch ..... *(1999)*

WYSE

WY-15E 15" 1280 x 1024 .28 NI 399
WY-17E 17" 1280 x 1024 .28 NI 645
WY-17PS 17" 1280 x 1024 .25 NI 825
WY-55 Terminal 14" Amber/ Green/ White .... 275 ea.

ACCESSORIES :

VGA Monitor Splitter : 4 Port / 8 Port 155/195
VGA, Keyboard Switch : 4 Way 19.95
VGA, Keyboard & Mouse Switch : 2 Way 24.95
VGA, Keyboard & Mouse Switch : 4 Way 34.95

12. MOTHERBOARD

ASUS (w/o cpu)

KN97X Pentium® II 440FX, ATX 305
P55T2P4 586-200, PCI, 512k, Burst SRAM 155
P6NP5 Pro 200Mhz, w. IDE I/O & 440FX chipset .. 249
P65UP5 Pro 200Mhz, dual Pentium® slots 545
TX97 512k,, TX chipset, w. Dimm socket 175
TX97E 512k, TX chipset, 4 Simm/ 2 Dimm 177
TX97X ATX, 512k, w. sound 209
XP55T2P4 586-200, PCI, ATX, 512k Burst SRAM .. 159
16MB, 2x72, for Asus board 115
32MB, 4x72, for Asus board 195

DFI (w/o cpu)

G586IPV P-200, 4PCI, 3ISA 256k 139
G586IPC P-200, ECC & Parity supported 175
G586VPS Pro-200Mhz, 256k, 4PCI, 4ISA 179

FIC (w/o cpu)

PA-2005 586-200, 256k, IDE I/O, VIA chipset 109
PT-2006 586-200, 512k, T3, IDE I/O 115
PT-2200 586-200, 512k, T2, IDE I/O 119

intel. (w/o cpu)

Marl 586-200Mhz, ATX, w. 256k / 512k 129/135
Portland Pentium® II 440FX w. audio 285
Tucson II P-200Mhz, 512k, ATX, & sound 199
Venus Pro-200, IDE I/O, w. 440FX oem 179
Venus Pro w. USB oem 229

J-BOND (w/o cpu)

PCI500C-G2: P-200, 4PCI, EIDE, 430HX, 256k 109
PCI500C-G2: P-200, 4PCI, EIDE, 430HX, 512k 119
- w. AHA-2940UW SCSI on board, 512k 265
PCI500C-H2: P-200, 256k, EIDE, 430VX 99
- w. AHA-2940 SCSI on board, 256k 159
PCI500C-H4: Pentium® II 266Mhz, 512k, VX (support Intel, K5, K6, Cyrix CPU) 105
PCI600A: Pro-200, 4PCI, IRDA, 440FX, ATX 199
- w. AHA-2940UW SCSI on board 345

M-TECH (w/o cpu)

486-DX2-66 256k VESA, 30-pin & 72-pin 99
486-DX4-133 256k PCI, 30-pin & 72-pin 115
586-200Mhz 256k w. Burst SRAM, T2, IDE I/O ... 145
Mustang-R534 586-200Mhz, 512k, w. IDE I/O 159
R539 512k, TX chipset, 4 Simm / 2 Dimm, EIDE... 145
R557 512k, TX chipset, ATX, 4 Simm / 2 Dimm... 165
R653 Pentium® II 440FX, ATX, EIDE I/O 245

SUPERMICRO USA (w/o cpu)

P5MMA ATX, 512k, TX chipset 159
P5MMS 512k, TX chipset 159
P5STE 586-200 512k, PCI, EIDE I/O, T2, 512k..... 155
P6DNE Pro 200Mhz, dual Pentium® slots 349
*P6DNF Pro 200Mhz, dual Pentium® slots, w. IDE I/O & 440FX chipset ..... *(399)*
P6DNH Pro 200Mhz, dual Pentium® slots, w. IDE I/O & 440FX chipset 719
P6DKF Dual Pentium® II 440FX, IDE I/O 409
P6SAS Pro 200Mhz, 2940UW, ATX 325
P6SKE Pentium® II 440FX, ATX, EIDE I/O 275
P6SKS Pentium® II 440FX, ATX, SCSI & EIDE 359
P6SNA Pro 200Mhz, ATX 259
P6SNE Pro 200Mhz, w. IDE I/O & 440FX 269
P6SNS Pro 200Mhz, w. 2940UW 345

TYAN (w/o cpu)

1470 Titan VX w. 256k Pipeline cache 145
1472 Titan VX w. 256k Pipeline cache, ATX 149
1563D Tomcat III P-200, 512k, dual 225
1563S Tomcat III P-200, 512k, 430HX 175
1570 w. 512k, 430TX chipset 159
1572 w. 512k, 430TX chipset, ATX 165
1662D Titan Pro-200, dual, 440FX 359
1662S Titan Pro-200, 3ISA, 5PCI, 440FX 259
1668D Titan Pro-200, dual, ATX 329
1682D dual Pentium® II 512k ATX 345
1680S Pentium® II 512k, ATX 295

13. MOUSE & JOYSTICK

KENSINGTON

Expert Bus 5.0 115
*Expert Serial & Trackball 5.0 ..... *(89)*
*Mouse in a Box ..... *(26.95)*
Orbittrack Ball 52
*Thinking Mouse (Serial & PS/2) ..... *(59)*

LOGITECH

Cordless Mouseman 96 / Pro 69/75
Mouseman 96 / Mouseman Bus..... 52/64
Mouseman Sensa 29
Serial Combo PC & PS/2 oem / reg 29/45
Trackman Live Cordless 125
Trackman Marble for Win'95 oem / reg 59/82

Microsoft

Ballpoint Mouse 2.0 (for notebook) 69
Bus 2.0 400dpi w. Bus Card oem / 5-Pack..... 65/325
Combo Mouse (Serial + PS/2) 49.95
Easyball w. Freddi Fish CD 49.95
Home Mouse Serial..... 29
*IntelliMouse 3.0 for Win'95 ..... *(69)*
- oem single / oem 5-pk 45/210
PS/2 2.0 (round connector) oem 35
Serial 2.0 400dpi oem 29

MOUSE SYSTEMS

Mouse! Serial w. Pad 19
Omni Mouse (new version) 26
PC Mouse III (3-button optical) 49.50
PC Trackball II 39.95
ProAgio (5-button serial) 39
Serial Bus Card (9IRQs) - 5 com..... 29

NEC

2-button King Mouse 19.99

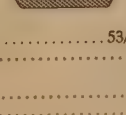
QTRONIX

Libra 90 Pro Trackball 35
Opto-Mechanical Mouse 7.50

OTHERS

AGILER ATB-610 Serial Trackball..... 19.95
AGILER Bus Mouse 23
ANCER 3-button Black 19
*ANTEC Serial Mouse ..... *(6.95)*
GENIUS Netmouse Serial / PS/2 ..... 19.95 ea.
GENIUS Netmouse Combo (serial + PS/2)..... 24.95

JOYSTICK :



C.H. PRODUCTS

Flight Stick Pro / Pro Pedals 53/79.95
Virtual Pilot Pro (Yoke) 75

LOGITECH

Wingman Extreme oem / reg 39/47
*Wingman Standard w. free CD ..... *(29)*

MICROSOFT

Side Winder 1.0 7
Side Winder 3D Pro 6
Side Winder Game Pad 3

THRUSTMASTER

ACM Gamecard 29.9
F-16 FLCS 12
F-16 TQS 12
F22 Pro Flight Control (programmable) 13
Flight Control System MK II / w. US Navy Fighters .. 65/
Flight Control System Pro 10
Formula T2 11
Rudder Control 10
UPROM 29.9
Weapon Control MK II 10
Wizzard (pinball controller + Royal Flush CD) 3
XL Action / w. EF2000 game 28/33.9

OTHERS

*Cobra (by Mouse Systems) ..... *(9.9)*
*Command Pad (by Quickshot) ..... *(5.99)*
CyberFlight Joystick + Dark Forces 3
Cyclone 3D 4
Dexxa Control Pad w. CD games 1
*Game Card (add-on) ..... *(7.9)*
Game Gun + Crime Patrol 3
Gravis Eliminator Game Card 2 Port 19.9
Graivs Game Port Y Splitter ..... 9.95 e.
PC Analog Pro Joystick 19.9
PC Gamepad Pro 2
Power Ramp (10-in-1 gamdpad) 49.9
Walt Disney Mouse Pad ..... 4.99 e

- 101 Dalmations	- Mickey Mouse
- Pocahontas	- Timon & Pumbaa
- Toy Story	- Winnie the Pooh

Warner Brothers Mouse Pad ..... 5.99 e

- Bugs Bunny	- Daffy Duck
- Homer Simpson	- Marvin the Martian
- Tasmanian Devil	
- Tweety & Sylvester	- Wile E Coyote

14. NETWORK

Government & Education Pricing
Please Call!

3Com

*3C250A FMS 100BaseTX Fast 12 Port HUB .. *(1165*
*3C509B TPO oem ..... *(59*
*3C509B TP+AUI oem ..... *(69*
3C509B-TPC (TP + BNC) oem / reg ..... *(79)/11.
3C509B Combo oem / reg / 5-Pack 89/119/49
3C515-TX Fast 10/100 ISA oem / reg..... 135/14.
3C562D PC-Card Modem 33.6 + Lan TPO 29
3C562D PC-Card Modem 33.6 + Lan Combo 33
3C575TX 10/100 PC Card 15
3C589D PCMCIA TP / 5-Pack ..... *(139)/67.
3C589D PCMCIA Combo / 5-Pack..... *(179)/87.
3C597-TX EISA 10/100 TP 23
*3C862 Impact ISDN U-Interface (w. NT1) Int .. *(295.*
*3C882 Impact IQ ISDN with V.32bis Ext ..... *(335.*
3C900 PCI TPO 11
3C900 PCI Combo oem / reg..... *(99)/13
*3C905-TX PCI 10/100 TP oem / reg ..... *(79/99.*
*3C16170 Link Builder (12TP) ..... *(299.*
3C16405 Port Switch 40 Hub 12 Port 47
3C16406 Port Switch 40 Hub 24 Port 89
3C16590 Dual Speed 12 Port Hub 119
3C16591 Dual Speed 24 Port Hub 184
*3C16670A Superstack II 12 Port Hub..... *(469.*
3C16671A Superstack II 24 Port Hub 84
*3C16700 TPO Office Connect HUB (8TP) ..... *(119.*
*3C16701 TPC Office Connect HUB (8TP + BNC) .. *(149.*
*3C16720 Office Connect 100 HUB 8 Port ..... *(665.*
*3C16730 Office Connect 10/100 Switch 4TP + Fast .. *(775.*
*3C16900A Switch 1000 24 Port + Fast ..... *(2275.*
3C16901A Switch 1000 12 Port 1 Fast 159
3C16941A Switch 3000TX 8 of 100TX Port 197
LANPLEX products ..... call

adaptec

*ANA-6901 32 PCI Full Duplex TP / Combo .. *(85/99)*
ANA-6910TX PCI Fast-TX, 32 bit bus mastering .. 175
ATM 25.6Mb/s PCI with 128k / 512k..... 299/389
ATM 155 Mb/s 512k PCI UTP 725
*EM525 Ethernet 16 Combo ..... *(49)*
*EM932 EISA 32 bit Coax / TP ..... *(98/99)*

ALLIED TELESYN

3012TR Workgroup Hub 12 Port (12TP+AUI+BNC) ... 175
3016TR Workgroup Hub 16 Port (16TP+AUI+BNC) .. 199
3024TR Workgroup Hub 24 Port (24TP+AUI+BNC) .. 259
MC12T: UTP - BNC Conversion Kit 119
MR815T Mini Hub 8 Port 69

**(price) ..... SPECIALS , while supplies last*

http://www.centralcomputer.com for update price & catalog

15. NOTEBOOK / DESKTOP / PALMTOP

ACER

AcerNote Light Multimedia 374+: P-133, 16MB, 1GB, 10X CD, 11.3" TFT 2795
Nuovo 971: P-133Mhz, 16MB, 1.3GB, 6X CD, 28.8 modem, 11.8" TFT 3495
Nuovo 972: P-133Mhz, 16MB, 1.3GB, 6X CD, 28.8 modem, 11.3" DSTN 3095
Nuovo 975: P-166MMX, 32MB, 2GB, 10X CD, 33.6 modem, 12.1" TFT 4595

ALCOM (Samsung oem)

*FX-220: P120, 16MB, 1GB, 11.3" DSTN ..... *(1499)*
FX-250: P133, 16MB, 1.3GB, 10X CD, 11.3" DSTN 1799
XL-322: P120, 16MB, 1GB, 10X CD, 12.1" TFT ... 2295
XL-353: P133, 16MB, 1.3GB, 10X CD, 12.1" TFT . 2395
XL-380: P150, 32MB, 2.1GB, 10X CD, Li-Ion, 12.1" TFT 2895

CHEM USA

ChemBook 2600:
16MB, 1.4GB, 10X CD,
Zoom Video Ready,
Win'95, 12.1" DSTN,
- P133/ 166 .. 1895/1995
- P166MMX 2095
- P200MMX 2295
Upgrades:
- to 12.1" TFT .. add 500
- to Li-Ion Battery ..... add 100
- to 2GB Hard Drive ..... add 150
ChemBook 6800: 16MB RAM, 1GB, 11X CD, 12.1" DSTN, 3 PCMCIA slots,
w. P133/ 166/ 200Mhz 1795/1845/1995/2095
ChemBook 6800: 16MB, 1.3GB, 11X CD, 12.1" TFT,
w. P133Mhz / P166Mhz / P200Mhz 1845/1995
w. P166MMX/P200MMX 2085/2295
- Internal Battery / External Battery 85/150
- upgrade Li-Ion Battery ..... add 100
ChemBook 9750: 16MB RAM, 1GB, 10X CD removable 12.1" DSTN, video jack,
- P100Mhz / P133Mhz 1795/1845
- P166Mhz / P200Mhz 1975/2075
- upgrade (for 9750) to 12.1" TFT ..... add 700
Chembook 9750: 16MB RAM, 2GB, 10X CD, 12.1" TFT, Li-Ion Battery, w. P166Mhz / P200Mhz 2825/2899
- w. P166MMX / P200MMX 2899/3095
- w. 32MB RAM built-in ..... add 150
- upgrade (fr. 12.1" TFT) to 13.3' TFT ..... add 675

DFI

8231 Ultra Screen Pro 14.2" XGA ..... call

EVEREX

48 hr. nationwide manufacturer direct service
StepNote MX133: 16MB RAM, 1.3GB, 10X CD, Win'95, MS Bundle,
- w. 12.1" DSTN / 11.3" TFT 1795/2295
Upgrade to 2.1GB HDD ..... add 165

FUJITSU

Lifebook 530T: P133, 16MB, 1GB, 6X CD, 11.3" TFT .. 2695
Lifebook 555T: P150, 16MB, 1.3GB, 6X CD, 12.1" TFT . 3450
Lifebook 635T: P133, 16MB, 1.3GB, 28.8 modem, 12.1" TFT 3350
*Lifebook 655TX: P150MMX, 16MB, 1.3GB, 33.6 modem, 12.1" TFT ..... *(3895)*
Port Replicator Enhanced Unit for 635 & 655 355

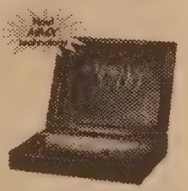
HITACHI

C-133T: P133, 8MB, 1GB, 8X CD, 28.8 modem, 12.1" TFT 1965
E-133TC: P133, 16MB, 1GB, 8X CD, 11.3" TFT .. 1999
*MX-133T: P133, 16MB, 1.3GB, 8X CD, 33.6 modem, 12.1" TFT ..... *(2595)*
*MX-166T: P166MMX, 16MB, 2.1GB, 8X CD, 33.6 modem, 10BT, 12.1" TFT ..... *(3545)*

HP

we're Authorized VAR

LAPTOP:



Omnibook 800CS/100 (F1171A): 16MB RAM, 772MB, 10" DSTN ..2395
Omnibook 800CT/133 (F1175A): 16MB RAM, 1.3GB, 10.4" TFT .. 3195
Omnibook 800CT/ 166MMX (F1360A): 16MB RAM, 2GB, 10.4" TFT 4595
*Omnibook 5500CTS/120 (F1324A): 16MB RAM, 1.3GB, 16-bit Sound, 10.4" TFT ..... *(2295)*
Omnibook 5700CT/150MMX (F1352A): 16MB, 2GB, 12.1" TFT 4445
Omnibook 5700CT/166MMX (F1353A): 16MB, 2GB, 12.1" TFT 4695
Upgrades: 10X CD Rom (F1347A) for 2000 / 5500 / 5700 335

DESKTOP:
** monitor sold seperate **
*Vectra VL4/133 (D4660B): P-133Mhz, 2.5GB, 16MB, Mini-Tower, HP Keyboard & Mouse ..... *(995)*
*Vectra VL5/166MT (D4579A): P-166Mhz, 16MB RAM, 2.5GB, 8X CD,Win'95,HP Keyboard & Mouse *(1595)*
Vectra VL5/200MT (D4577A): P200Mhz, 16MB, 2.5GB, 8X CD, Win'95, HP Keyboard & Mouse... 1765
Vectra XA6/200MT: (D4776N): Pro-200Mhz, 32MB, 2.5GB, 8X CD, 10/100 Ethernet, Win NT 4.0, HP Keybaord & Mouse 2565

PALMTOP:
200LX 80 column 2MB (F1061A) 459
200LX 80 column 4MB (F1216A) 549
300LX 2MB, 640 x 240 (F1220A) 465
320LX 4MB, 640 x 240 (F1321A) 645

IBM

TP365X: P-133Mhz, 8MB, 1.08GB, 11.3" DSTN .. 1495
TP365XD: P-133Mhz, 8MB, 1.35GB, 4X CD,
- w. 11.3" DSTN 1850
- w. 11.3" TFT 2695
TP560: P-133Mhz, 8MB, 2.1GB, 12.1" TFT 3795
- w. 11.3" DSTN 2395

TP760ED: P-133Mhz, 16MB, 2.1GB HDD, 6X CD, 12.1" TFT 4395
TP760EL: P-120Mhz, 8MB, 1.08GB, 12.1" DSTN ... Call
TP760EL: P-133Mhz, 32MB, 2.1GB, 12.1" TFT 5095
TP760XD: P-166MMX, 32MB, 3GB, 8X CD, 28.8 modem, 12.1" TFT 6295

KEYTECH USA

KB6280: 16MB, 2.1GB, 12.1" TFT, 11X CD, w. P166Mhz / P200Mhz 2525/2595
w. MMX-166Mhz / MMX-200Mhz 2595/2825
KB6280: 16MB, 2.1GB, 11X CD, 12.1" DSTN, w. P166Mhz / P200Mhz 1985/2075
w. P166MMX / P200MMX 2065/2295
Win95 ..... add $90

MAXTECH

753TS: 8MB RAM, 1.3GB, 8X CD, 11.8" TFT, support TV video, w. P133Mhz / P166Mhz 2125/2295
Upgrade to 12.1" TFT ..... add 280

RIX

AP6400: 16MB, 2.1GB, 11X CD, 12.1" TFT,
- P133Mhz / P166Mhz / P166MMX ... 2485,2565,2635
Upgrades: - 32MB built-in ..... add 125
- w. Win'95 loaded ..... add 90
822: P-133Mhz, 16MB, 1.3GB, 6X CD, Win'95, w. 11.3" DSTN / 11.3" TFT 1665/1995

SCEPTRE

S3900: 8MB, 1GB HDD, 11.3" DSTN, Win'95,
- P100Mhz / P133Mhz / P150Mhz ... 1495/1665/1745
S4000: 8MB, 1GB, 10X CD, 12.1" TFT, Win'95, Li-Ion,
- P100Mhz / P133Mhz / P150Mhz ... 2395/2585/2655
S4500: P-166MMX, 16MB, 12.1" TFT,
- 1GB / 1.3GB / 2GB HDD 3395/3445/3655
Upgrades: - 1.3GB HDD / 2GB HDD ..... add 95/250
- w. 16MB built-in ..... add 75
- w. 32MB built-in ..... add 195

TOSHIBA

Portege 660CDT: P-150Mhz, 16MB, 1.35GB, 10X CD, 28.8 modem, 11.3" TFT .. .. Call
Satellite 110CS: P-100, 8MB, 810MB, 11.3" DSTN .. 1245
Satellite 220CDS: P133, 16MB 1.4GB,10X CD, 12.1 DSTN 2085
Satellite 425CDT: P-100, 8MB, 810MB, 6X CD, 11.3" TFT 1999
Satellite 430CDT: P-120, 16MB, 2.02GB, 10X CD, 11.3" TFT 2295
Tecra 500CDT: P-120, 16MB, 1.2GB, 12.1" TFT, 6X CD, 28.8 modem 2945
Tecra 500CS: P-120, 16MB, 1.2GB, 12.1" DSTN, 28.8 modem 1750
Tecra 510CDT: P-133, 16MB, 2.1GB, 12.1" TFT, 10X CD, 28.8 modem 3385
Tecra 730XCDT: P-150MMX, 16MB, 1.2GB, 6X CD, 12.1" TFT, 28.8 modem 4795
Tecra 740CDT: P-166MMX, 16MB, 3GB, 10X CD, 28.8 modem, 13.3" TFT / w. Docking 57996350

TWINHEAD

Slimnote 700C:
11.3" DSTN, 1GB HDD, Win'95, 16MB,
- w. P-120 1199
- w. P-133 1299
Slimnote 700T:
P-133, 1.2GB, 16MB Win'95, 11.3" TFT.. 1495
Slimnote 700PCMCIA 10X CD Ext 315
Slimnote 9133T: P-133, 12.1" TFT, 10X CD, 33.6 modem, Win'95, Lithium Ion Battery,
- w. 1.3GB HDD 2799
-w. 2.1GB HDD & 16MB / 32 MB 2999/3165
Slimnote 9133V: P-133, 11.3" DSTN, 1.3GB 16MB RAM, 10X CD, Win'95 1945
- w. built-in modem ..... add 175
- w. 16MB RAM add-on ..... add 195
- w. 11.3" TFT ..... add 525
- w. Lithium Ion Battery ..... add 100
Slimnote 9150T: P-150, 12.1" TFT, 32MB RAM, 2.1GB, Win'95, 10X CD, Lithium Ion Battery. 3195
Slimnote 9166T: P-166MMX, 12.1" TFT, 2.1GB, 32MB, 33.6 modem, 10X CD, Win'95, Li-Ion 3795
- upgrade to LCD 1024x768 ..... add 300

US ROBOTICS

Palm Pilot Personal 512k 279
Palm Pilot Prof. 1MB 369
- Belt Crib Case 24
- Cradle for Windows 29
- Deluxe Leather Case 58
- Palm Pilot Modem 129
- Pen 3-pk 7.99
*Pilot 1000 Pocket Organizer ..... *(199)*
*Pilot 5000 Pocket Organizer ..... *(235)*
*- 1MB upgrade ..... *(99)*
- Cable for MAC / Pen 3-pk 25/7.95

ACCESSORIES

Kensington: MicroSaver 39.95
Port: DEFCOM I (motion-sensor) 49
Targus: Leather Convertible Backpack (CLC-1) 89
Targus: Notepad Case (CNO-1) 29.95

NETWORK (con't)

MR820TR MicroHub 8 Port (8TP + AUI + BNC).. 115
MX26F Fiber Optics Transceiver 145
MX40F Fiber Optics Transceiver 139

APOLLO

PCMCIA Lan Ethernet Adapter Combo 79

ARTISOFT

Extra Mail for Win'95 215
I-Share 2.0 (internet for Lantastic) 179
Lantastic 7.0 for Single - CD / FD 85/89
Lantastic 7.0 10-user - CD / FD 355/359
Lantastic 7.0 1-user Add On 129
Lantastic 7.0 Starter Kit 2-user - CD+FD 249
Lantastic 7.0 Unlimited User - CD 725
Lantastic PowerSuite :
- 1 / 5 / 10 / 25-user 149/599/1075/2295
- conversion for 1 / 5 / 10-user 89/345/595
NR-Pro 2000A Combo / 10-pack 85/755
NR-Pro 2000T TP / 10-pack 79/625

ASANTÉ

*10T HUB 8 Port (8TP + 1BNC) ..... *(115)*
*10T HUB 12 Port (12TP + 1BNC + 1AUI) ... *(219)*
*10T HUB 24 Port ..... *(345)*
*Fast 100BaseTX 12 Port Hub, stackable ..... *(1475)*
*Fast 100BaseTX 12 Port PNP ..... *(1195)*
*FriendlyNet 5 Port Hub TP ..... *(62)*
*FriendlyNet 8 Port Hub TP ..... *(65)*

ASCEND

*P25-IU-FX: ISDN Pipeline 25 + 4 Ethernet..... *(455)*
*P25-IU-PX: ISDN Pipeline 25 + IP Routing .... *(525)*
*ISDN Pipeline 50 w. UBRI ..... *(599)*
- w. Secure Firewall P50 ..... add 350
*ISDN Pipeline 75 w. UBRI ..... *(675)*
- w. Secure Firewall P75 ..... add 350
*ISDN P130-UBRI-FT1 ..... *(1295)*
- w. Secure Firewall P130 ..... add 690
MAX200+ (M201 - 4BRIU) 2975
*MAX1800 (MX18 - 8BRIU) ..... *(4995)*

Bay Networks

AT2202001 Bay Stack 100BT 12 Port 1595
CG1001E01 Bay Stack 12 Port 599
CG1001E02 Bay Stack 24 Port 975
Lattislink 2800A: 16TP + 1AUI 559
Lattishub 2803: 16TP + 1AUI Stackable 599
Lattisswitch 28115R 10/100 TP 16 Port 7795

CASTELLE

FaxPress 1500N Ether 1 Line for NW & NT 1995
Office Connect Ether 2P Printer Server 359
Office Connect Ether 1 Line Fax Server 1195

CHEYENNE

*Arc Serve 6.1 for Win - 5 to 25-user (netware)..... *(395)*
- upgrade Workgroup edition 239
Arc Serve 6.1 for Win - 50 to 1000-user 1095
- upgrade Workgroup edition 415
*Arc Serve 6.0 for Win NT 4.0 Single Server ..... *(399)*
*Arc Serve 6.0 for Win NT 4.0 Enterprise ..... *(699)*
Arc Serve 6.0 for Win NT Workstation 185
Arc Serve for Mac - 5 / 20-user 159/309
Arc Solo Backup s/w for Dos / for Win 119/118
Fax Server NLM 5.0 - 5 / 10 / 25-user 355/639/999
Inoculan for Netware Server 4.0 Unlimited 585
Inoculan for Win'95 (Anti-Virus) 45
Inoculan for Win NT Server 575
Inoculan for Win NT Workstation Client 46

CISCO

CPA-202 Personal Office ISDN - BRI w. NT1 425
CPA-751 ISDN BRI 625
CPA-751RO ISDN BRI Remote Office 995
CPA-2514 Router 2195

CNet (Advanced Network)

*930 PCI PNP Full Duplex ..... *(29)*
2000E+ PNP ISA Combo 27
4020ERP 2 Port Coax Repeater 165
*8800TPC HUB: (8TP + BNC) ..... *(79)*
*8816TPC HUB: (16TP + BNC) ..... *(159)*

DANPEX

*2900P2 PCI Combo ..... *(39)*
3270 Emulation for PC / for PS/2 ..... 175/195
5250 Emulation for PC / for PS/2 ..... 199/235
6200P2 PCMCIA (type II) BNC+TP 115
*7000P3 32bit VLB Combo ..... *(75)*
*9400P3 32bit PCI Combo (DEC, full duplex) ..... *(69)*
*EN-1600 16 Port HUB R.M. ..... *(175)*
EN-2400 24 Port HUB R.M. 335
ER-200 2-port Repeater Coax 185
ER-400 4-port Repeater Coax 299
ET-509 Translator (UTP to BNC) 109
ET-510 Translator (UTP to AUI) 107
*FE-1000TX ISA 10/100BaseTX ..... *(98)*
*FE-1400TX PCI 10/100BaseTX ..... *(99)*
*Print Server (2P 1S) NW / Unix / Appletalk .... *(235)*

DIGI INTERNATIONAL

IMAC Bridge 1 ISDN 1165
IMAC Bridge Dual IMAC 1595
PC IMAC - ISA: Server, 1 ISDN 525
PC IMAC / 4-1: Multi-ISDN Expansion 665

FARALLON

Mac & PC Connection products ..... Call

FRONTIER

Super TCP / SuperWeb ..... Call

FUJITSU

PCMCIA Ethernet TP 135
PCMCIA Ethernet Combo 179
PCMCIA Ethernet TP + SCSI 295

HEWLETT PACKARD

Advanced Stack 8 Port HUB (J2610B) 245
Advanced Ethernet Hub 8E (J3128A) 185
J2550B Jet Direct TP 299
J2552B Jet Direct Combo 345
J2573A 10/100 VG Selectable ISA 169
J2585B 10/100 VG Selectable PCI 135
J2590A Jet Direct EX Plus 3 for 100VG 549
J2591A Jet DirectEX Plus Combo 295
J2593A Jet DirectEX Plus 3 Combo 395
J2980A Advance Stack 10/100 Lan Switch-16 5295
J3175A Advanced Switch 208T 1045
J3200A Advanced Switching 12 Port 425
*J3201A (J3200A) + SMNP (J3210A) ..... *(499)*
J3202A Advanced Switching 24 Port 825
*J3203A (J3202A) + SMNP (J3210A) ..... *(899)*

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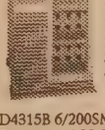
We are Authorized Re-seller



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Pro 200, 32MB /1GB max ECC, 256k L2, 6-hot swap shelves
2 UW SCSI-3 Controller, CD,
3yr onsite warrenty from HP
Optional: Redundant Power Supply
Upgradable to Dual CPU..... 6695
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D4937A E40 P6/180 1999
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IBM

Token Ring 16/4 Turbo ISA (72H3482) 245
Token Ring PCMCIA 16/4 Auto 349

intel.

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EE11TX 12 Port 10 & 100 Dual Speed Hub 1065
*- bundled with 10 of PILA 8465B ..... *(1665)*
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*EILA 8265 PRO/100 for EISA ..... *(199)*
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*- PCLA 8220 TP oem / reg / 5-Pack ..... *(59/89/315)*
-PCLA 8205 Flash BNC+AUI+TP 135
- PCLA 8215 Flash BNC + TP 125
- PCLA 8225 Flash TP 115
LANdesk Virus Protect 4.0 945

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PILA 8480 Pro 100 Server Adapter 485
*PILA 8500 PRO/10 PCI Combo oem ..... *(85)*
*PILA 8520-TPO PRO/10 PCI oem ..... *(69)*

KINGSTON
Etherx 10/100 Fast PCI 74
Etherx 10BT PC Card 95

LANPRO
*EN2000PXA PNP Full Duplex Combo ..... *(29)*
*- w. Novell Personal Netware ..... *(54)*
EN5100 PCI Combo 79
*EN5200PX PCI Combo ..... *(39)*
EP3020A Pocket Combo 99
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*Fast 100 HUB 12 Port ..... *(599)*
*HUB : 5 Port (5TP) ..... *(59)*
*HUB : 8 Port (8TP + BNC) ..... *(75)*
*HUB : 16 Port (17TP + 2AUI + 2BNC) ..... *(175)*
SD200 2 Port Easy Switch 10 BT & 100TX 445

LINKSYS
*Fast 100TX 4 Port Hub Stackable ..... *(269)*
Fast Switch 10/100 TX 2 Port 395
Fast Switch 10BT & 100TX 5 Port 1795

MEGAHERTZ
*XJ10BC PCMCIA Ethernet Combo ..... *(165)*
*XJ10BT PCMCIA Ethernet TP ..... *(125)*
XJEM 3336C Modem 33.6 + Lan Combo 325
XJEM 3336T Modem 33.6 + Lan TP 299

MICRODYNE (Eagle)
*EH800E 8 Port HUB ..... *(119)*
*EH1200E 12 Port HUB ..... *(175)*
*NE 10/100 ISA ..... *(89)*
NE 10/100 PCI 119
*NE2000+ TP / 5 pack ..... *(75/329)*
*NE2000+ Combo / 5 pack ..... *(85/399)*
*NE2500 Combo, plug & play oem ..... *(35)*
*NE5500 32 bit PCI Combo ..... *(109)*

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CD-Now for Netware: 25-user / 50-user 489/695
Disc View Pro 265
Disc Serv (includes Disc View) 529

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- 5 / 10 / 25-user 625/1250/2095
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- 250 / 500 / 1000-user 7295/15995/30995
Intra Netware for Small Business (for < 25-user):
- Server + 5 License 599
- 1 / 5-user license 59/225
Lan Workplace 5.0 single / 10-user 195/1295
Netware 3.12 (3.5" FD)
*- 5 / 10 / 25-user ..... *(675/1295/1895)*
- 50 / 100-user 2695/3495
Netware Connect 2 Ports / 8 Ports 355/1375
Netware Connect 32 Ports 3895
Netware NFS v1.2C 2850
Netware NFS Service 2.1 2195
NFS Client for Lan Workplace 205
*Unixware Personal Edition v2.01 - CD version .... *(99)*
*Unixware SDK v2.1 - CD version ..... *(75)*

PALINDROME
*Network Archivist NLM 3.1A Backup ..... *(195)*

SHIVA
LanRover/2E Plus 3.5 Async TP v.34 1695
NetModem/E 28.8 Ether BNC + TP 1295

SMC
Ether EZ Combo 115
*Ether EZ TP (8416T) oem ..... *(58)*
*Elite Ultra 32 EISA Combo ..... *(195)*
*Etherpower PCI TP (8432T) oem ..... *(69)*
*Etherpower PCI Combo oem ..... *(85)*
EZ Hub 100TX 8 Port 635
Tiger HUB: 100TX 12 Port 1195
Tiger HUB: 3212TC (12TP + BNC + AUI) 349
*Tiger HUB: 3314T 14 Port ..... *(459)*

WISECOM (5 yr warranty)
*D300CT PCI Bus Mastering ..... *(39)*
*H008CAT 8 Port HUB (8TP + AUI + BNC) ... *(85)*
HI16CAT 16 Port HUB (16TP + AUI + BNC) 155
P200CT NE2000 ISA Combo, plug & play 26
R300CT PCI 32 bit Combo, plug & play 34

XIRCOM
*CE3-10BC PCMCIA Combo ..... *(159)*
*CE3-10BT PCMCIA TP ..... *(125)*
*CE3-100BTX 10/100 PCMCIA ..... *(149)*
*CEM33-BC 33.6 Modem + Lan Combo ..... *(309)*
*CEM33-BT 33.6 Modem + Lan TP ..... *(275)*
*PE3-10BC Pocket Adapter Combo ..... *(279)*
*PE3-10BT Pocket Adapter TP ..... *(259)*

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BF-250 Back-UPS Office Kit ($30 Rebate) 165
BK-280 Back-UPS (200W), 2 out 105
BK-400 Back-UPS (300W), 2 out 154
BK-450 Back-UPS (325W), 4 out 179
BK-600 Back-UPS (425W), 4 out 239
BK-900 Back-UPS (650W), 6 out 345
BP-280 Back-UPS Pro PNP, 2 out 159
BP-420 Back-UPS Pro PNP, 4 out 235
BP-650 Back-UPS Pro PNP, 4 out 289
BP-1000 Backup Pro, 6 out 375
SU-450 Smart-Net (486, 586 WS), 4 out 295
SU-700 Smart-Net (486, 586 FS), 4 out 365
SU-1000 Smart-Net (FS & WS), 6 out 495
SU-1400 Smart-Net (950W), 6 out 625
SU-2200 Smart-Net (1600W), 8 out 1095
SU-3000 Smart-Net (2250W), 8 out 1675
SUVS-420 Smart Value Server, 4 out 239
SUVS-650 Smart Value Server, 4 out 295
SUVS-1000 Smart Value Server, 6 out 415
PowerChute Plus :
- for Novell 65
- for OS/2, Lan Server, 3 Com 75
- for Unix / Xenix 99
- for Win & Win'95 55
- for Win NT 69
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Surge Arrest w. TEL (PER 7T) 22.99
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Silencer Slim 230 for Baby or Mid Tower 69
Silencer 230 Full Tower 89
Silencer 270 for Full Tower 124
- Slim for Baby or Mid Tower 114
Silencer 235 for ATX 84
Silencer 275 for ATX 124
Standard 230 for Full Tower 85
Turbo Cool 300 for ATX 126
Turbo Cool 300 for Full Tower 125
- for Slim (baby or mid tower) 115
*Turbo Cool 400 for Full Tower / for Slim ... *(176/175)*
Turbo Cool 400 for ATX 199
Turbo Cool 450 for Full Tower (heavy duty) 285
Two-inOne 500 (slim, redundant) 215
Twinpower 900 (redundant) 895

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235W for ATX 49
250W for Baby or Mid Tower 29
250W for Baby or Mid Tower, PS/2 (by Kingspao) .. 45
300W UL for Full Tower , PS/2 49
300W for Full Tower, PS/2 (by Kingspao) 59
RPT-600 300W Redundant for Tower 179

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Battery Tester M-032 ..... 6.50
*Belkin Power Authority F5C120 ..... *(17.95)*
DMM: DT-890B (A,V,O,C,Hfe) 19.95
DMM: DT-830B (Adc,V,O,Hfe) pocket size 8.95
DMM: KT-7113 (A,V,O,C,Hfe) auto ranging 24.95
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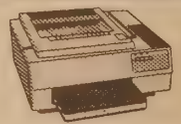
DMM: ST-5308 (Adc,V,O,Hfe) battery test 11.95
Engine Tester KT-7181 (Dwell, Tacho) 18.95
Pocket Meter MF-133, 5 functions 6.95
Power Center Switching Systems 13.50

17. PRINTER / PLOTTER



Printer memory available. Please call for $

BROTHER
HL-720 True 600dpi, 6ppm, Laser 345
HL-730DX True 600dpi, 6ppm, Laser 395
HL-1660 17ppm, Laser, 1200x600dpi 1225
MFC-4550 5-in-1, 600dpi, Laser, Fax 769
MFC-6550 6-in-1, fax/ copy/ scan/ print etc. 999

CANON
*BJC-70 Color, 720x360dpi, 346cps ..... *(299)*
BJ-240 Color, 360x360dpi, 4ppm 189
*BJC-620 Ink Jet, Color, Par, 720dpi ..... *(339)*
BJC-4200 Ink Jet Color, 360x720dpi 275
BJC-4550 11" x 17", 5ppm, 720x360dpi 475

EPSON
FX-870 9-pin 295
FX-2170 9-pin, Wide (max. 6 copies) 449
LQ-570 Plus 24-pin 259
LQ-870 24-pin, Par 455
*LQ-2070 24 pin, Wide ..... *(389)*
LQ-2170 24-pin, Wide 549
Stylus 400 Color, 3ppm, 720dpi 209
Stylus 600 Color Inkjet, 720x1440dpi 289
Stylus 800 Color, 8ppm, 720x1440dpi 419
Stylus 1500 720dpi, fit A - C size paper 485
Stylus 1520 Color 759

Accessories :
Black Ink for II & IIS 19.95
Black Ink for 400/ 500/ 600 ..... 21.95 ea
Blakc Ink for 400/ 800 (SO20025) 12.95
Black Ink for 800 Color/ 1520 ..... 24.95
Color Ink for II & IIS 29.95
Color Ink for 400/ 600/ 800 ..... 24.95 ea
Coated Letter Paper 720dpi (S041062), 100 sheet . 13.95
High Quality A4 Paper (S041111) , 100 sheet 9.50
Photo Quality A4 Paper (S041061), 100 sheet 12.95
Photo Quality Glossy (S041124), 20 sheet 10.95

HEWLETT PACKARD
Color Laser Jet 5 (C3961A) 3875
Color Laser Jet 5M (C3962A) 4945
Desk Jet 692C 295
Desk Jet 820CXi / 870CXi ..... *(285)/379
Desk Jet 1000CXi (C2673A), print size 4x5 - 11x17. 485
Desk Jet 1600C PC, Mac 1299
Desk Jet 1600CM Postscript PC, Mac 1899
Laser Jet 4V / 4MV (B size) 1795/2595
Laser Jet 5 (C3914A) 999
Laser Jet 5M / 5N 1525/1285
Laser Jet 5Si / 5SiMX 2349/3395
Laser Jet 6LXi 389
Laser Jet 6PXi / 6MP 745/879
Mopier (C4176A) 5Si Bundle 6545
*Office Jet 330 4-in-1, print/ fax/ scan/ copy ..... *(469)*
Office Jet 590 4-in-1 (C4645A) 595
Office Jet Pro 1150C Color (C5300A) 939
Portable 340 285

PLOTTERS
Design Jet 350C: D Size / E Size 2195/2795
Design Jet 750C: D Size / E Size 4995/5695
Design Jet 755CM: E Size 8195

Accessories :
*C3067A: Color Kit for 540 ..... *(37)*
C3169A: Postscript for 5Si 435
C3760A: Lower Cassette for 4V / 4MV 325
C3762A: Duplex for 5Si / 5SiMX 479
C3765A: Envelope Feeder for 5Si 379
C3918A: Postscript for 5 / 5N 335
C3920A: Duplex for 5 / 5N / 5M 475
C3921A: 500 Sheet Feeder for 5 225
C3927A: Power Envelope Feeder for 5 259
*C4533A: Color Kit for 600 ..... *(39)*

Ink Cartridges :
(HP51626A) Black for 500, 540, 560 ..... 24.45
(HP51625A) Color for 500C, 550C, 560C 26.95
(HP51629A) Black for 600, 660 ..... 24.95
(HP51649A) Color for 660C 29.25
(HP51645A) Black for 870C, 855C, 1600C 26.95
(HP51641A) Color for 870C, 855C, 1600C 28.95
(HP51640A) Black for 1200C 23.95
(HP51640C) Cyan for 1200C 27.95
(HP51460M) Magenta for 1200C 27.95
(HP51640Y) Yellow for 1200C 27.95
(HPC3105A) Black for Color Laser Jet 7.95
(HPC3102A) Cyan for Color Laser Jet 32.95
(HPC3104A) Magenta for Color Laser Jet 32.95
(HPC3103A) Yellow for Color Laser Jet 32.95

Paper:
92296T: Transparency Film for Laser, Letter, 50 sheet . 18.95
C1812A: Greeting Card, Letter, 20 sheet 11.95
C1846A: Photo Paper, Letter, 20 sheet 10.95
C2974A: Glossy, Letter for 5/ 5M, 50 sheet 41.95
C5973A: Premium Glossy, Letter, 25 sheet 22.95
C5976A: Bright White Inkjet, Letter, 200 sheet ... 6.95

Toner Cartridges :
(HP92295A) Toner for II, IID, III, IIID 75
(HP92275A) Toner for IIP, IIP+, IIIP 74
(HP92291A) Toner for IIISi, 4Si, 4SiMX 129
(HP92298A) Toner for 4, 4M, 4+, 4M+, 5, 5N, 5M.. 89
(HP92274A) Toner for 4L, 4ML, 4P 65
(HPC3900A) Toner for 4V, 4MV 139
(HPC3906A) Toner for 5L, 5ML 59
(HPC3903A) Toner for 5P, 5MP, 6P, 6MP 75
(HPC3909A) Toner for 5Si, 5SiMX 179

IBM (network printer)
#4312001: Laser, 12ppm, 600dpi, 4MB 1025
#4317001: Laser, 17ppm, 600dpi, 4MB 1365
#4324001: Laser, 24ppm, 600dpi, 4MB 2345

LEXMARK
Optra C 600dpi, 3ppm color, Postscript, 8MB 4695
Optra E 600dpi, 6ppm, 1MB 395
Optra LX+ 1200dpi, 16ppm, Par, Postscript, 4MB 1895
Optra LXiV+ 1200dpi, 16ppm, 8MB, Postscript, w. Ethernet Combo 2595
Optra R+ 1200dpi/8ppm, Ser & Par, 2MB, Postscript, 600dpi/16ppm 1295

MICROTEK
*TrueLaser MTP-306 35 fonts, 6ppm, 2MB ..... *(599)*

NEC
*Superscript 860 Laser ..... *(379)*

OKIDATA
ML184T 9 pin, Par (max. 5 copies) 235
*ML320T 9 pin (max. 5 copies, 290cps) ..... *(325)*
ML390T 24 pin, 312cps, for Win & Win 32 345
*ML520 9-pin, 430cps ..... *(385)*
ML590 24-pin (max. 5 copies) 449
ML591 24-pin, Wide (max. 5 copies) 625
*OkiJet 2010 Color, 600dpi ..... *(199)*
*OkiPage 4W Laser 4ppm ..... *(289)*
OL600E Laser, 6ppm, 600dpi 389
OL610E Laser, 6ppm, 600dpi, 2MB 485
*OL610e/PS Laser Postscript ..... *(725)*
OL810E Laser, 8ppm, 600x1200dpi 665
*OL1200 Laser 12ppm, 600x600dpi, 2MB ..... *(949)*

PANASONIC
3123 24 pin, Quiet, Scalable Fonts 259

SEIKO
Smart Label Printer EZ30 145
Smart Label Printer Pro 235
Standard Label (2 rolls) 7.95

SUMMAJET (Plotter)
1324C Color A - D Size 2250
1324M Mono A - D Size 1990
1336C Color A - F Size 2695
1336M Mono A - F Size 2465
D Size Stand / E Size Stand 325/365

OTHER ACCESSORIES
Auto Switch (non-power) 2 to 1 ..... 11.50
Auto Switch (non-power) 4 to 1 ..... 22.50
Data Switch: 2 Way / 4 Way 5.99/8.99
Parallel Auto Switch 2 to 1 bi-directional 19.95
Parallel Auto Switch 4 to 1 bi-directional 29.95

18. PROJECTOR

PROXIMA
Desktop DP2810 LCD 8.4" 33mm 640 x 480 3850
Desktop DP5100 5850
Ovation 810 LCD 8.4" 2M Color, 640 x 480 2065
Ovation 920 10.4" LCD 16.7M 1280 x 1024 8150
Ovation+ 840 8.4" LCD 16.7M 800 x 600 2995
Ovation+ 846 10.4" LCD 16.7M 800 x 600 3895
Portable Overhead A653 3000 Lumens 475
Portable Overhead A655 4000 Lumens 799

19. SCANNER

ACER (flatbed)
*AcerScan 300F Color ..... *(199)*

AVISION
AV100 Color 195
AV360C Color 199

DELRINA
*WinFax Pro Scanner ..... *(299)*

HEWLETT PACKARD
ScanJet 4C Color & Gray Scale w. Kit 749
- Auto Document Feeder (C2525B) 475
- Transparency (C2521B) 635
Scanjet 5P Color/ Grayscale 385

MICROTEK (flatbed)
*Scan Maker III w. TMA & Photoshop OCR ... *(1399)*
*Scan Maker E3 600dpi, 24-bit Color, w.OCR.... *(195)*
*Scan Maker E6 1200dpi, w. OCR ..... *(339)*
Scan Maker E6 Pro 1200dpi w. Photoshop OCR.... 529
Scan Maker V300 w. Paperport 225
Slide Maker 35T 1800dpi, 16.8M Color, w. ScanWizard 725
Transparency Adapter for E3 285
Transparency Adapter for E6 285

STORM TECHNOLOGY
Easy Photo Drive ISA Card 179
Easy Photo Reader Parallel 155
Easy Photo Smartpage Color 259

UMAX
Astra 600S w. Photo Deluxe 245
Astra 1200S Win Deluxe 445
Astra 1200S Win PS 635

VISIONEER
*PaperPort MX for Win (HP4S design) ..... *(225)*
PaperPort IX Scanning Keyboard 185

20. TAPE BACKUP

EXABYTE
*Eagle TR3 (603003-004) 3.2GB Int w/o card ... *(145)*
EXB-8205XL 8mm Dat. 3.5 - 7GB Int / Ext.. 1275/1499
EXB-8505XL 8mm Dat. 7 - 14GB Int / Ext .. 1850/2095
EXB-8700E 8mm 7 - 14GB Ext ..... Call
EXB-8700LT 8mm 5 - 10GB Ext ..... Call

HEWLETT PACKARD
*C1534 4mm Dat. 2GB SCSI Int ..... *(549)*
*C1536 4mm Dat. 2-4GB SCSI Int ..... *(595)*

C1554 Dat. 24GB DDS-3 Int 1345
C1599 Dat. 8GB DDS-2 Int 765
C1561A Autoloader Surestore 12000E Dat. 48GB . 2895
*Colorado T1000 850MB Travan w. cartridge Int . *(139)*
Colorado T1000 850MB, printer port Ext 175
Colorado T3000 3.2GB Travan w. cartridge Int 189
Colorado T4000S 8GB Travan Int 359
HP Mounting Frame to 5.25" for C1534/ C1536/ C1599 .. 25
HP Mounting Frame to 5.25" for C1533/ C1554 27

IOMEGA

Ditto 800MB Travan Int 89
Ditto 800MB Travan Parallel 139
Ditto 2GB Int / Ext 129/179
- 2GB Tape / 3-pack 19.95/57
Ditto 3200MB (QIC 3010/ 3020) Int. 209
Ditto 3200MB (QIC 3010/ 3020) Parallel 245

NOVASTOR (software)

*Novaback CD Bundle (multi-platform) ..... *(59)*

Seagate

CNR-4320RT 2GB Int w. 5.25" rail 675
CNR-4324RP 2 - 4GB SCSI Int. 645
CNR-4326NP 4mm 8GB Dat. SCSI Int 3.5" 815
*CNR-4326RP 4mm 8GB Dat. w. 5.25" rail ..... *(799)*
CNR-4350XT 2GB Ext 685
Tape Stor w. cartridge 420MB Int 139
Tape Stor w. cartridge 800MB Travan Int 139

Software (Arcada):

Back Up for Windows '95 65
Back Up Exec for Netware WS 7.0 98
Back Up Exec for Netware Enterprise 7.11 845
Back Up Exec for Netware Single Server 435
Back Up Exec for Netware 1 Server 25-user 315
Back Up Exec for Win NT Enterprise 6.11 795
Back Up Exec for Win NT Server 6.11 439
Back Up Exec for Win NT Workstation 189

TEAC

*FT-3008TR 800MB Travan Int ..... *(49)*

OTHERS

COMBYTE: DP1800EA 800MB Int 135
*WANG: 3400DX 8GB 4mm 5.25" Dat. ..... *(699)*

TAPE CARTRIDGES:

3M - 4mm 90M 7.50
- 8mm 112M 6.95
- MC3000XL (680MB) 26.50
- Travan (800MB) TR-1 ..... 27.95
- Travan (1600MB) TR-3 / TR-4 ..... 29.95/34.95
EXABYTE - 8mm 112M, 5GB 9.95
- 8mm 160MXL (for XL drives) 15.95
- 18C 8mm Cleaning Cartridge 19.95
- EXMC 3000XL (1GB) 26.95
- MC3000XL (680MB) 21.95
HP - 92283B 4mm 90M (2GB) / 5-pk 8.50/39
- 92283K 4mm Cleaning Tape 2-pk 21.95
- 92300A 4mm 120M (4GB) / 5-pk 19.95/95
- C1517A 4mm 125M (12GB) DDS-3 ..... 29.99
- C1572A 4mm 120M Autoloader 119
- Travan for DT-1000 / 2-pk / 3-pk . 29.95/54.95/82
*MAXELL - 4mm 90M Dat. ..... *(7.99)*
- DC2120 (QIC80) 9.95
- DC2120XL (350MB) 16.95
SONY - 4mm 120M for DDS 25.95
- 4mm 90M for DDS-1 ..... 8.95
- QIC-Wide 3010 (850MB) 24.95
- QIC-Wide 3020 (1.7GB) 27.95

21. VGA CARD

ATI

3D Expression 2MB PCI DRAM w. CD game 89
3D Expression 4MB PCI, PC2TV 159
3D Pro Turbo 4MB PCI, PC2TV 179
*3D Pro Turbo 8MB PCI, PC2TV ..... *(245)*
*All-in-1 Wonder 4MB PCI ..... *(259)*

DIAMOND

Fire GL 1000 4MB PCI 279
Fire GL 1000 8MB PCI 389
Stealth 3D 2400XL 4MB PCI 125
Stealth 3D 3240XL 2MB PCI VRAM 159
Stealth 3D 3400XL 4MB PCI VRAM 189
Stealth 3D Audio Monster Soud reg 189
Stealth 3D Monster 4MB PCI 189
Stealth 2500 1MB DRAM PCI 49
Stealth 2500 2MB DRAM PCI 65
Stealth Video 64 2MB VRAM PCI, upgradable 109

IMS

TwinTurbo 128P PCI VRAM w. 2MB / 4MB.. 195/265
TwinTurbo 128P PCI VRAM 8MB 395

LEAKTEK

M-Mate Pro II (external video encoder) 99
Winfast 280 VGA & MPEG-1 w. 1MB / 2MB.. 145/165
Winfast 430 VGA 2MB VRAM 135

MATROX

Millenium PCI 2MB 159
*Millennium PCI 4MB oem / reg ..... *(185/195)*
- upgrade 2MB / 4MB 85/149
*- upgrade 6MB oem ..... *(199)*
Millennium II PCI 4MB oem 239
*Mystique 3D PCI 2MB ..... *(119)*
Mystique 3D PCI 4MB oem / reg 129/145
Mystique 220 4MB eom 169

NUMBER NINE

Anniversary SALE
Imagine 128 Series II PCI 4MB VRAM .. *(259)
Imagine 128 Series II PCI 8MB VRAM .. *(439)

FX Reality 332 3D DRAM PCI 2MB 95
*FX Reality 772 VRAM PCI 2MB ..... *(125)*
*FX Reality 772 VRAM PCI 4MB ..... *(185)*
*Imagine 128 Series II 4MB EDO PCI ..... *(229)*

SPIDER

Tarantula 3D DRAM PNP w. 2MB / 4MB 75/99
Tarantula 64 MK II 2MB VRAM PCI 105
Tarantula 64 MK II 4MB VRAM PCI 135

OTHERS

Boca Voyage Movie Player Accelerator VGA 285
*Hercules Dynamite 128 PCI 4MB SMDRAM .. *(119)*
Movie Plus 1100 MPEG Decoder 199
Televiewer / Televiewer Plus 139/189
Trident 8900 1MB ISA 45
Trident 9680 1MB PCI 39
Trident 67TV 3D 2MB EDO DRAM PCI, w. 9685 .. 75
Tvator Pro PC/MAC VGA to NTSC Scan Converter 159
Tvator Remote Pro VGA to NTSC Scan Converter 289
V-Mate Pro (video encorder : PC to TV) 189

Conferencing & Video:

*AGFA: Ephoto 307 Digital Camera ..... *(245)*
Casio QV-100 640 x 480 Camera 599
Epson PC Color Digital Camera 395
Epson Photo PC-500 Color Digital Camera 465
*- w. PhotoPix LCD Monitor ..... *(599)*
Epson Photo Pix LCD Monitor 175
Howard Video Camera 295
Intel Smart Video Recorder III 189
Internet Videophone + Video Capture 135
Kodak DC20 Digital Camera 199
Kodak DC25 Digital Camera 435
*Kodak DC50 Digital Camera Zoom Lens ..... *(649)*
Quick Cam for Win / Quick Cam Color 99/225
Snappy 2.0 (video Snapshot) 195
Specom Suite Visions (color digital camera + s/w) . 195
Video Logic Captivator 135
USR: Big Picture Camera + Capture 229
USR: Big Picture Video Kit (capture + modem) ... 225
USR: Big Picture w. Camera 349

SOFTWARE

1. PC SOFTWARE

ADOBE

Acrobat 3.0 189
FrameMaker 5.11 - CD+FD 545
*Illustrator 4.1 for Win & Win'95 ..... *(299)*
Illustrator 7.0 for Win 32 365
- competitive upgrade 265
Pagemaker 6.5 for Win 32 / S.E. (special) ... 545/*(295)
Photoshop 4.0 / S.E. (special) ..... 549/*(399)
*Premier 4.2 for Win - FD/CD ..... *(499)*

AUTODESK

Animator Studio 1.1 249
AutoCAD Lite 2.0 / for Win'95 ..... *(255)/409
Autosketch 2.1 for Win & Win'95 89

Borland

C++ 5.0 for Dos, Win, Win32 - CD 325
C++ 5.0 Developer Suite 425
C++ Builder 1.0 Standard / Professional 89/525
*Delphi Developer 2 Kit / upgrade ..... *(395/255)*
Delphi 3 / upgrade 499/249
*Paradox 5.0 for Win ..... *(99)*
Paradox 7.0 for Win'95 & NT / upgrade 265/95
Turbo Assembly 5.5 115
Visual dBase 5.5 for Win & Win'95 269

COREL

Corel Draw 4.0 (2CD) oem / reg 29/69
*Corel Draw 5.0 - CD ..... *(195)*
*Corel Draw 6.0 for Win'95 - CD oem / reg ... *(59/299)*
*Corel Draw 7 for Win'95 & NT - CD ..... *(399)*
- upgrade 225
Corel Flow / Corel Flow 3 ..... *(59)/129
Corel PerfecOffice Prof. - CD 275
- upgrade 189
Corel XARA 179
Ventura 7 for Win'95 - CD 549
WordPerfect Suite 3.1 - FD+CD / CD only 265/239
WordPerfect Suite 7.0 for Win'95 - FD+CD 274
- CD only 235

DELRINA

*Comm Suite 7.0 for Win'95 - FD / CD ..... *(95/96)*
*CyberJack 7.0 for Win'95 ..... *(48)*
NetSatisfaxtion 3.0 for Novell 25-user 755
Win Comm Pro 79
WinFax Pro 4.0 - FD / CD 79/89
WinFax Pro 4.1 for Network :
- 10 / 25 / 50-user 599/1395/2650
WinFax Pro 7.0 for Win'95 - FD / CD 79/79
WinFax Pro Starter Kit (server + 2 notes) 265

IBM

Anti-Virus Desktop 2.5 Single 47
OS/2 4.0 Warp Single : WS / Server 195/539
Voice Type Simply Speaking Gold for NT 89.95

INTUIT

Quicken Deluxe 6.0 - CD / FD 59/58
Quicken 6.0 for Win3.1 & Win'95 38
Quicken Parent's Guide to Money 16
Quickbook 5.0 for Win - CD 97
Quickbook Prof. 5.0 for Win - CD 185

LOTUS

1-2-3 5.0 for Win 299
1-2-3 97 for Win 32 / upgrade 299/99
cc:Mail 6.1 Systems Pack Server 134
cc Mail 6.0 10-user Client Pack 559
cc:Mail Mobile E-Mail 7.0 for Win'95 & NT 135
Organizer '97 for Win'95 75
*Smart Suite 4.0 for Win - CD ..... *(199)*
*Smart Suite 97 for Win 32 ..... *(335)*
*Word Pro '96 for Win3.1 & Win'95 ..... *(65)*

MICROGRAFX

ABC Flow Carter 4.0 - CD+FD 299
ABC Graphics Suite Live 6.0 - CD 275
Designer Power Pack - CD 335
Designer Tech Live 4.1 - CD 399
Flowcharter Live 7.0 - CD 279
Graphic Suite #2 for Win'95 315
Picture Publisher Live 5.0 - CD 135
Windows Draw Live 4.0 for Win 32 - CD 24

Microsoft

Authorized Education Reseller
Please Call for Academic Pricing

Access 2.0 for Win 289
- upgrade for Win'95 94
Access 97 299
Access Developer's Kit for Win'95 459
Back Office Resource Kit pt.1 / pt.2 ..... 59/95
Back Office Server 2.5 2295
Back Office Client v2.5 5-user 1199
Dos 6.22 42
Excel 5.0 for Win 295
Excel 97 / upgrade 299/95
Exchange Server with 5 Client 899
- w. 10 Client / w. 25 Client 1245/1945
- Exchange Internet Connection 459
Fortran Powerstation 4.0 for Win 32 559
*Fox Pro 2.6 Single Dos or Win ..... *(95)*
Frontpage 97 / upgrade 139/49.95
*Home Essential 97 upgrade ..... *(94)*
Macro Assembler 6.11 (MASM) 155
*Multimedia Viewer - CD ..... *(199)*
Office Professional 4.3 - FD / CD 539/559
Office Prof. for Win'95 - FD 525
Office Prof. 97 + Bookshelf - CD 529
- upgrade + IntelliMouse 335
Office 97 Intergrate Step by Step 19.95
Office 97 Resource Kit 37
Office 97 Small Business Edition 449
- upgrade to S.B. edition 224
Office 97 Standard / upgrade - CD 445/225
PC Mail Server 3.5 w. 10-user 445
- 5-user / 20-user 269/865
Picture-It for Win'95 47
Power Point 7.0 / upgrade ..... *(299)/98
Project 4.0 for Win / upgrade 415/135
Project for Win'95 419
Publisher 97 CD Deluxe 74
Services for Netware (add-on NT 4.0) 145
SNA NT Server 395
SNA NT Workstation 199
SQL NT Server 6.5 for 5-user 1299
- 10-user / 25-user 1899/3799
- Client License 5-user / 20-user 685/2175
SQL NT Workstation 6.5 475
SQL Server Internet Connection 2795
System MGMT Server - 5 / 10-client 825/1045
Visual Basic Enterprise 5.0 1095
Visual Basic Prof. 4.0 for Win - CD 445
Visual Basic Standard 5.0 - CD 89
Visual Basic 5.0 Step by Step 24
Visual C++ Standard 4.0 - CD 89
Visual C++ 5.0 Professional 455
Visual Fox Pro Standard 3.0 for Win 189
Visual Fox Pro Prof. 5.0 / upgrade 449/235
Visual InterDev. 459
Visual J++ (JAVA) 87
Visual Source Safe 5.0 475
*Windows '95 ..... *(179)*
- oem version FD / CD 99/85
Windows '95 Plus - FD / CD 44/44
Windows '95 Resource Kit 29.95
Windows NT 4.0 Server Resource Kit 109
Windows NT 4.0 Workstation Resource Kit 59
*Windows NT Server 4.0 w. 5-user ..... *(725)*
*Windows NT Server 4.0 w. 10-user ..... *(995)*
- Win NT License: Single Client / 20 Client ... 35/599
*Windows NT 4.0 Technical Training ..... *(99)*
Windows NT Workstation 4.0 - CD 285
Windows for Workgroups 135
Word & Publisher Value Pak 125
Word 6.0 for Win 289
Word 97 / upgrade 299/78
Works 3.0 for Win - FD 49
Works + Bookshelf Win'95 - CD 69
Works 4.0 for Win'95 oem 39

QUARTERDECK

Cleansweep 3.0 for Win '95 38
Hijaak Graphics 3.0 for Win 89
*Hijaak Prof 4.0 for Win '95 ..... *(89)*
Internet Suite 2.0 37
MagnaRam 2.0 for Win 3.11 & Win'95 24
Procomm Plus 4.0 for Win'95 - CD 124
Qemm 8.0 for Win '95 / upgrade 63/36
Remote-It 95 35
*Speedy Rom for Win'95 ..... *(19)*
Total Web 86
Web Author 2.5 for Win'95 45
Web Compass 2.0 46
Win Probe 95 46
Zip-It for Win'95 37

SYMANTEC

*ACT! 2.0 for Win ..... *(169)*
ACT! 3.0 for Win'95 & NT 175
C++ 7.2 for Win NT & Win'95 69
For Your Eyes Only 75
Internet Fastfind 1.0 44
Norton Anti-Virus '95 v.2 66
Norton Anti-Virus for Win, Dos, Win'95 - CD 67
Norton Anti-Virus for NT - CD 65
*Norton Desktop 3.0 for Win oem / reg ..... *(45/99)*
Norton Disklock 3.5 for Dos/ Win - CD 79
Norton Healthy PC 28
Norton Navigator '95 - FD / CD 89.95/89.95
Norton NT Tools 47
Norton PC Handyman 48
Norton Utilities '95 v.2 ..... 69.95
Norton Utilities v.2 for Win NT 89
Norton Utilities 8.0 109
PC Anywhere 5.0 Remote & Host for Dos 124
- v2.0 for Win 125
- v7.5 for Win'95 & NT 135
Visual Cafe v.1 for Win'95 & NT 169
Visual Cafe Pro 399
Visual JAVA: Cafe v1.5 for Win 32 69
WinFax Pro 7.5 for Win'95 - CD 95

OTHERS

3D Eye : TriSpectives / Professional 279/459
AccTrack v1.5 ..... 44.99
CA Clipper 5.3 for Win / upgrade ..... *(149)/89
CAERE: Omni Page Direct OCR 2.0 65
CAERE: Omni Page Prof. 7.0 for Win'95 435
CAERE: Wordscan Plus 4.0 / upgrade 389/139
Cakewalk Professional for Win - FD+CD 165
Cakewalk Professional Audio Deluxe - CD 285
Canvas for Win 265
Carbon Copy 3.0 for Win, 2-user 119
Claris: File Maker Pro 3.0 for Win 175
Claris Works 4.0 for Win'95 49
*Connectons Telemarketing for SBT ..... *(79)*
Daytime Organizer for Win'95 58
Design CAD 3D 8.0 for Win 32 249
Direct Access 5.1 for Dos 65
Eudora Pro - Single / 5-user 58/215
First Aid 97 - CD oem / reg 29/34
Fractal Dabbler 2.0 46
Fractal Design Painter 5.0 265
Fractal Sketcher for Win 49
FTP: On-Net 32 for Win'95 (PC/TCP) 299
Hyper Access for Win'95 49
*Internet Phone 4.0 ..... *(28.95)*
Internet Voicemail 29.95
Kai's Power Tools 3.0 for Win'95 & NT 119
Laplink for Win'95 129
Macromedia Action 3.0 for Win 149
Macromedia Director 5.0 for Win 835
Macromedia Fontographer 4.1 for Win - CD 319
Macromedia Freehand 5.0 for Win 375
McAfee: Remote Desktop 32, 2 node 65
McAfee: Virus Scan Deluxe for Dos/ Win/ Win'95/ NT ... 6
McAfee: Web Scan 4u
Partition Magic 3.0 for Dos, Win, Win'95, NT, OS/2 . 59
QA Plus v7.1 for Win 59
Quark X Press 3.32 for Win 599
Stac: CD Quickshare Network Unlimited User 925
Stac: Reachout 7.0 Host & Remote 125
Stac: Replica 3 Intra Network Backup 750
Stacker 4.1 for Win'95 55
System Commander 3.0 (multi OS on PC) 69
Total Equal (turn PC into a comm center) 145
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Encarta '97 oem / reg 36/46
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Clearance Specials ..... 2 for $9.99

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101 Dalmations: Escape from Devil Manor 38
American Heritage Children's Dict. (age 7-12) 14
Barbie Fashion Designer (age 6+) 39
Big Job (age 4-8) 16
Book Workshop (age 8+) 26
Discovery Geography (age 9+) 14.95
Discovery Science (age 9+) 14.95
Encyclopedia of Human Body (age 7+) 13
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Flipper (age 4-9) 33
Freddi Fish: Maze Madness 16
Hercules Animated Storybook (age 4-8) 38
Lion King Activity Centre (age 3-9) ..... *(29.95)
Mighty Machines (age 3+) 29
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Type to Learn (3rd - 8th grade) 26

GAMES (age 16+)

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Battleground 6: Napoleon in Russia 46
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Boldies 39.95
Classic Wings vol.1 23
Duke Nukem 3D 29
Enemy Nations 39
Fable 37
Fisherman's Paradise 18
Fragile Allegiance 48.95
Great Battles of Alexander 47
Hansel & Gretel 23
Lords of Realm II oem / reg ..... 22/*(40.95)
Magic the Gathering: Card Game 39
Master of Orion II (Battle at Antares) 49.95
Nascar Racing 2 oem / reg ..... 21/*(38.95)
Over 1000 Games vol.2 ..... 14.95
Pandemonium! 38
Quake 39
Red Neck Rampage 48
SAIC! 2000 41
Sim Classics Collection #3 36
Soldier Boyz 33
Star Trek: Voyager 29.95
Tiger Shark 42.95
X-Wing vs Tie Fighter 39.95
You Don't Know Jack: Movies 34
Zapitalism! Deluxe 34

REFERENCE

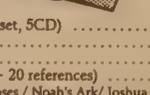
ART

3D Fonts 13
Calendar Creator 4.0 ..... 18.95
Do-It-Yourself Collection (3 titles) 39.95
Expert : Clipart 3D 15
Expert : Kids Fonts 15
Gift Maker WIN 16
Instant Greeting.Card 16
Let's Draw 35
Painters Painting 26
Photo Finish 4.0 14
Print Master Gold Publishing Suite 3.0 37
Water Color My Way (by Jack Reid) 19.95

ATLAS / MAP / TRAVEL

3D Atlas '97 ..... 29.99
3D USA Explorer 23
Best Beaches in the Caribbean 19
Cartopedia (by Dorling Kindersley) ..... *(31)
Compton's Interactive World Atlas 39.95
Compton's World Atlas '97 14
Exploring America's National Parks 15
Map & Go / 2.0 ..... *(25)/36
See the World by Train 29.95
Small Blue Planet: 3D Talking Globe 22.95
Street Atlas 4.0 for Win & Win 32 42
Travel CD Piranha Pack 32.95
Walt Disney World Explorer 38.95

BIBLE



Believe (Bible reference set, 5CD) 29.95
Bible Builder DOS 14
Bible Heaven 11
Bible Library (9 books + 20 references) 19
Bible Rom: Creation / Moses / Noah's Ark/ Joshua .. 14 each
Bible Study & Games II 13
Complete Bible WIN 15
Expert : Bible Explorer Win3.1 & Win'95 18
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BUSINESS

808 Great Letters Win'95 oem / reg 16/46
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Office Collection (3 titles) 52
Personal Law Library 42
Small Business Advantage 6CD 39.95

COOKBOOK

Cocktail Classics 15
Easy Cooking : Thai / Greek / French / Italian . 18 each
Master Cook: Cooking Light 4.0 33
Master Cook: Jenny Craig Cookook 36
Master Cook II 13
Wines of the World Gold Edition (w. book) 30
World Cuisine: Low Fat / Mexican ..... 16 each
World Cuisine: Chinese / Vegetarian Dish .... 16 each

DICITIONARY / STUDY AIDS

Acing the New SAT 26
Biology Science Wizard 15
Calculas I / Calculas II (Pro-1) ..... 14 each
College Guide 97 12
English (Pro-1) 4CD set 36
Multimedia Talking Picture Dictionary 29
Multimedia Vocabulary for Win'95 14
Physics Science Wizard 1 / 2 ..... 15 ea.
Visual Dictionary (talking edition) 35.95

ENCYCLOPEDIA

Compton's Encyclopedia 97 15
Encyclopedia of Drugs 11
Encyclopedia of Knowledge 15
Encyclopedia of Nature 2.0 35
Encyclopedia of Science (DK) ..... *(30.95)
Encyclopedia of Space & Universe (DK) 36
Encyclopedia of U.S. Stamps 18
Grolier Encyclopedia '97 18

HEALTH / MEDICAL

EZ-Relax Massage for Computer Users 17
Family Medical Guide (by Dorling Kindersley) ..... *(29.95)
Mayo Clinic : Ultimate Medical Guide 38
Medline Professional Update 28
Nine Months Miracle w. mouse pad WIN 35
The Herbalist 29.95
Ultimate 3D Skeleton (DK) 28

HISTORY

18th Century (meet the makers of history) 26
Art & Music Collector's Set (4CD) 29
Chronicle of the 20th Century (DK) 30.95
History of Ships & Navies 35
History of the World (by DK) PC & MAC 19
History of US Space Program 17
History : W W II Global Conflict 46
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Nile: Passage to Egypt 34

HOME / FAMILY / GARDEN

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3D Garden Designer ..... *(12)
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Best Home Plans (by Sunset) 23
Better Home & Garden:Planning Your Home 29.95
Complete Guide to Wedding 18.95
Floor Plan Plus 3D 34
Fisher Price: Parenting Guide 31
Garden Encyclopedia 29
Gardening Multimedia Handbook WIN 13
Gazebo Gardens 36
Great Home Gardens (country living gardener) 29
Home Ownership Plus 24
Home Repair Encyclopedia WIN 27
Home Safe: w. Martin Short (childproof guide) 12
Visio Home ..... *(9.95)
Wedding Planner 15

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Best JAVA Applets 18
Black Coffee (Java) 15
Building Your Own Internet Server w. NT 16
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Developers Tools for JAVA 21
E Base (email database) 15
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Expert:Web Site Clipart oem / reg 16/18
Great Web Art & Tools 22
HTML Cliparts 10.95
HTML Template Master WIN / MAC 23.95
Info Magic : InterNet Tools 16
Info Magic : JAVA 16
Info Magic: Web Master vol.1 / vol.2 ..... 18/18
Info Magic: World Wide Catalog 17
JAVA+ 15.95
Java Programmer's Tool Kit 18
JAVA Starter Kit for Win'95 & NT 43
Talk Free (internet passport) 11
- Complete Set (w. headset) 24.95
Web Graphics 44.95
Web Max 34.95
World Wide Web Directory 26

LANGUAGE

Chinese :

Chinese Adventure - The Great Wall 21.95
Chinese Characters (English version) 28.99
Chinese Partner 4.0 Win & Win'95 165
Chinese Partner Pen 139
Chinese Poems Tours w. Book 26.95
Illustrated English - Chinese Dictionary 46
Simple Chinese for Business & Travel 25.99
Understanding Chinese Language (dictionary) 65

Others :

Amiecan Sign Language 2.0 45
EZ French / Japanese / Italian / Span / Russian 14 each
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LINUX

InfoMagic: Linux Developer's Resource 6CD 20.95
Linux Internet Archives 97 (8CD, by Yggdrasil) 19
Linux Megapack 12 CD 39
Linux : Plug & Play by Yggdrasil 27
Red Hat Archives Linux 4CD 19.95
Red Hat Official 4.0 Linux (w. Metro X) 35.95
Red Hat Power Tools 4.1 Linux (6CD) 19.95

MUSIC / MOVIE / VIDEO / SOUND

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Madden '97 ..... 39.95
NBA Live 97 ..... 38.95
NCAA Basketball Final Four 97 42
NFL Quarterback Club 97 ..... 44.95
NHL Hockey 97 ..... 38.95
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Mammals: Echidna thru' Whales 11
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Virtual Reality : Birds (Dorling Kindersley) ..... *(22)
Virtual Reality : Cats (Dorling Kindersley) ..... *(22)
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SERVICES & TECH SUPPORT

INSTALLATION

CD Rom Drive 20
Hard Drive: Primary (1st drive) 20
Hard Drive: Secondary (2nd drive) 30
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Tape Drive 20
Software & Hardware ..... 30 per hour

SERVICES

Systems Diagnosing / Onsite Repairs ..... Call
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Whenever 3 customers make the same request, we stock it immediately. Special orders are welcome.

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*(price) ..... SPECIALS / on SALE

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http://www.centralcomputer.com for update price & catalog

Online Guide

Web Page Listings *continued from page 187*

Paramax, Inc. *http://www.paramax.net* Developers of electronic products. [Exp. #169.]

PCB-Quote, Inc. *http://www.pcb-quote.com* Free multiple quote for PCB layout, fabrication, assembly. Over 250 PCB vendors to choose from. [Exp. #168.]

Porta Gas, Inc. *http://www.portagas.com* Calibration gases and equipment for air monitoring equipment. [Exp. #168.]

Posie Peddler Florist *http://home.earthlink.net/~samson/posie.htm* Specialty roses, fruit and gourmet baskets, balloons, tropicals, exotics, worldwide delivery. Charge by phone. [Exp. #167.]

PowerCom Australia Home Page *http://gil.com.au/comm/power/index.htm* Lightning, power, and data communication protection products for the electrical / electronics Industry. [Exp. #169.]

President/Owner *http://www.tssolutions.com/voss.htm* Environmentally safe household products. [Exp. #169.]

Publishers Depot *http://www.publishersdepot.com* Stock photography online store. Creative professionals can license and download over 500,000 premium images. [Exp. #169.]

Pyramid Tile Company *http://www.pyramidtile.com* Get your tile installation questions answered on the Internet. Ask Mr. Tile. [Exp. #169.]

R.L. Schreiber Online *http://www.RLSchreiber.com* A family-owned and operated company since 1968 providing high-quality food bases, spices, and related products. [Exp. #168.]

RadiKahl's Environment *http://www.geocities.com/RainForest/8865/* Alexander Kahl Environmental Consulting Services: develop scientific software applications. SF/Bay Area environmental links. [Exp. #169.]

RBF Enterprises *http://www.rbfenterprises.com* We sell discount cigar humidors. Visit our site for more information. [Exp. #168.]

RDT Development *http://www.rdt.dk* Development and sales of tele-equipment. [Exp. #169.]

RG Services *http://www.wimall,com/rgservices* Online shopping mall. [Exp. #169.]

Ridgewood Cottages *http://www.onlink.net/cybermall/ridcot* [Exp. #169.]

Saudi Arabian Development Company *http://www.sadco.com* Sales and services of industrial equipment, engineering and construction consultancy, and information technology group. Covering all of Saudi Arabia. [Exp. #168.]

Seiko Pool Co. *http://www.seikopools.com* One of the oldest and most respected builders in Southern California. [Exp. #167.]

Shotokan Karate Of America, Garden Grove, CA *http://inwinc.com/2003/garden.htm* Events, national Dojo directory, class schedule. Info about the history of Shotokan Karate of America. [Exp. #168.]

Skidmore, Owings & Merrill LLP *http://www.som.com* Architecture, engineering, planning, and interior design. [Exp. #169.]

SOSS Invisible Hinge *http://www.hinge.com* Provides the entire SOSS Invisible Hinges catalog. [Exp. #168.]

Strategic Sourcing, Inc. *http://ssourcing.com* Charlotte, North Carolina-based information technology consulting and recruiting firm. [Exp. #169.]

The Stockhouse, Inc. *http://www.stockhouse-houston.com* Stock photography, Texana, southwest photography, oil and gas. [Exp. #169.]

Streamline International *http://www.cyber-action.com/oed/jfinch.html* A stress-free way to make a potentially large income through nutritional products. [Exp. #169.]

TaCito Direct Marketing *http://www.tacito.com* Direct mail advertising. [Exp. #168.]

Team Simpson *http://www.simpsonraceproducts.com* America's leading manufacturer of motorsports products for racers, race teams, and fans. [Exp. #168.]

The Very Best Sticker Company *http://members.aol.com/utcbob/tvb/tvb.htm* Catalog company featuring stickers for kids of all ages. [Exp. #167.]

Thog, Inc. & Associates. *http://www.thog.com* [Exp. #168.]

Toy Time *http://www.toytime.com* Toy Time, an online specialty toy store, lets kids register for exactly what they want for their birthday. [Exp. #167.]

Union Made *http://www.unionmade.com* Ad specialties and promotional products, imprinted wearables, drinkwear, pins, jewelry, and more [Exp. #169.]

USSA, Inc. *http://www.catpass.com/ussa* Network marketing, home and small businesses, travel, and health. [Exp. #168.]

Ventura Design On Time, SA. *http://ventura.ch* A different breed of watches. [Exp. #168.]

Vimich Traffic Logistics *http://www.vimich.com* Contract traffic logistics management. [Exp. #168.]

Walkeralls: Adamo Industries, Inc. *http://www.walkeralls.com* Aids to daily living. [Exp. #169.]

WeddingView *http:// www.weddingview.com/wv* Present your wedding album online for friends and family. The service also offers pre-nupital announcements and choices of formats for albums. [Exp. #169.]

Welcome To Model Office *http://www.modeloffice.com* Home page of Model Office, Inc. [Exp. #169.]

Your Gateway To World Profit *http://www.globalassoc.com/* Business opportunities, world trade directories, how-to-books, Web wealth & Internet consulting. [Exp. #169.]

Your Travel Partner In Holland, Belgium, And Luxemnbourg *http://www.mbtravel.nl* Travel services for individuals and group travellers—for pleasure as well as for business. [Exp. #169.]

LEGAL SERVICES

California Anti-SLAPP Project *http://www.sirius.com/~casp* Provides information on strategic lawsuits against public participation and California's anti-SLAPP law. [Exp. #168.]

Database Solutions, Inc. *http://members.aol.com/formfiler/homepage.htm* Developers of PhotoTracker Pro and Do-It-Yourself Divorce software. [Exp. #168.]

Delaware Intercorp *http://www.del.net/biz/incorp/* Delaware registered agent and incorporation service for Limited Liability Companies and Corporations. [Exp. #169.]

First Legal Resource *http://www.findanattorney.com* Southern California's most complete Internet attorney directory. [Exp. #169.]

Law Offices of John R. Kahn *http://members.tripod.com/~jkahn/index.html* Attorney handling Computer, Bankruptcy, and Real Estate law, and transactional matters in San Jose, CA. [Exp. #169.]

Legal Survival Web Site *http://www.friran.com/* Robert Friedman, of Friedman & Ranzenhofer, presents the law in easy to understand lay terms for consumers and small business owners. [Exp. #167.]

Richard J. Greenstone, Attorney at Law *http://www.rjg.com/rjg* Copyright, trademark, licensing, business, and transactional law for the computer, entertainment, and publishing industries. [Exp. #169.]

Silicon Valley Legal Net *http://www.pagedepot.com/siliconvalleylegalnet* Interactive legal and business Web site. [Exp. #168.]

You Can Adopt *http://www.youcanadopt.com* Law firm limited to adoption and surrogacy. [Exp. #169.]

EMPLOYMENT/ EDUCATION

Adgrafix *http://www.adgrafix.com/info/aprice/sales.html* Account executives needed. High commissions and no investment. [Exp. #167.]

Altos Education Network *http://www.altosnet.com* Web-based education for entrepreneurs. [Exp. #169.]

Ascolta Training Co. *http://www.ascoltatrain ing.com* Training: Cisco, Microsoft, Novell, Netscape, Internet/ intranet certified engineer. [Exp. #169.]

Aspect International Language Schools *http://www.aspectworld.com* Language programs, study abroad, work study, high school and college exchange programs, and university placement. [Exp. #169.]

Avant-Garde Executive Recruiters *http://www.avgard.com* Executive and senior engineering search and placement firm. [Exp. #168.]

Certificate II Firefighting Operations *http://www.tafensw.edu.au/oten/fire* A Web site to support distance students in the course offered by the Open Training and Education Network (OTEN), Australia. Elements of the site include course information, learning resources, a forum for students and teachers. [Exp. #169.]

Computer Technical Training *http://www.compuedge.com* Hands-on technical development training. [Exp. #169.]

Crash Course On The Internet *http://www.choicemall.com/crash course* A five hour video training series instructed by NASA Internet Specialist Brian Kowal. [Exp. #168.]

The Desktop Writing Workshop *http://www.writingshop.com* Interactive multimedia fiction writing tutorials on CD-ROM. Award-winning author/ teacher Tom Parker plus e-Critiques. [Exp. #167.]

EduTech *http://www.edutech-1.com* The largest online listing of K-12 certified and classified jobs in California education on the Net. [Exp. #169.]

Extreme Training Methods *http://inwinc.com/2003/extm.htm* Increase your mind-body skill levels by 400%. Break through mental, physical plateaus and blocks. [Exp. #168.]

Hart Crowser Online Institute *http://www.supportonline.com* Provides computer-mediated, instructor-moderated, learning to support the training and education of today's workforce. [Exp. #168.]

How to Find Permanent Employment Through Temporary Services *http://members.cruzio.com/~frankj/* HTML manual for sale, based on author's personal experience using temporary services. [Exp. #169.]

Human Resource Network *http://www.hr-network.com/* IT contract and recruitment services. [Exp. #168.]

International Academy For Peace Education *http://www.best.com/~iape/home.html* Not just another peace initiative—innovative, community- building. [Exp. #169.]

LANOP CNE And MCSE Training *http://www.accesscom.com/~seekers/lanop.htm* CNE and MCSE training wth a guarantee and the lowest possible prices. [Exp. #169.]

The Learning Annex *http://www.thelearningannex.com* Interactive seminars, online store, student cafe/forum, listing of live seminars, and future celebrity seminars and chat. [Exp. #167.]

Math Exercises *http://rbbbs.cnchost.com* Online math exercises for grade 8-12; introducing a unique math exercise software (WonderMath). [Exp. #169.]

Web Page Listings *continued...*

Pacific College Of English *http://pacificcollege.edu.au* [Exp. #168.]

Raising Capital Seminar *http://www.altosnet.com/* World's first online seminar on raising capital. [Exp. #167.]

Virginia Woolf On Women And Fiction *http://www.cygneis.com/woolf* A distance-learning project. [Exp. #169.]

Zephyr Business Services *http://members.aol.com/zephyrbus/web/* Computer software training specializing in speech recognition software and custom training. Sales and support of major speech recognition platforms. [Exp. #168.]

ORGANIZATIONS

American Academy of Pediatric Dentistry *http://aapd.org* WWW site of premier children's dental advocates. [Exp. #169.]

Association To Benefit Children *http://www.a-b-c.org* Founded in 1986 to fight against the numerous threats children face every day: poverty, homelessness, drug addiction, and HIV. [Exp. #168.]

Bright Futures Project *http://www.brightfutures.org* Bright Futures mission is to promote and improve the health and education of children, families, and communities. [Exp. #168.]

Catholic Books Online *http://www.catholicbooks.org* The Web's largest nonprofit Catholic bookstore. [Exp. #169.]

The Center For Group Learning *http://www.cgl.org/* Learn about theories and practices regarding (people) group dynamics—workshops, conferences, links, online material, etc. [Exp. #167.]

CHECNet *http://www.checnet.org* The communication hub for individuals, organizations, scientists and policy-makers interested in children's environmental health. [Exp. #168.]

CHLB's Home Page *http://homepage.usr.com/c/camaron* Commodore 128/64 and Apple II family user group Web site. Come join us. [Exp. #169.]

European Train Enthusiasts *http://www.ete.org* Railroads of Europe, including modeling, travel video and photography, collecting, swapping, and modular railroading. [Exp. #167.]

Future Media *http://www.futuremedia.org* News, reviews, and attitudes on new media. [Exp. #167.]

Get Involved Online *http://www.stc-inc.org* AIDS awareness and prevention site sponsored by Students That Care, Inc. [Exp. #168.]

International Myeloma Foundation *http://www.myeloma.org/* Dedicated to improving the quality of life for myeloma patients while working towards prevention and a cure. [Exp. #169.]

LA AutoCAD User Group *http://www.lacad.org* Supporting the Autodesk family of software. Lisp programs, calendar of events, member/meeting information, articles, and technical papers. [Exp. #168.]

LA-VRML User Group *http://www.westworld.com/~bvirtual/lavug/* [Exp. #169.]

National Center For Employee Ownership *http://www.nceo.org/* Readings, columns, discussions, and interactive training on employee stock ownership plans, stock options, etc. [Exp. #167.]

National Trust For Historic Preservation *http://www.nationaltrust.org* News fresh from preservation's front lines, reports from the field, updates on legal battles, links, and a discussion forum on preservation topics of the day. [Exp. #167.]

Network Professionals Resource Center *http://www.inetassist.com* For network professionals and others that want to learn more about computer networking and telecommunications. [Exp. #169.]

New York Hospital Medical Center Of Queens *http://www.nyhq.org* A state-of-the-art primary and tertiary care hospital. [Exp. #169.]

Northern California Power Agency Home Page *http://www.ncpa.com* Electric power provider located in Northern California. [Exp. #168.]

Orange County NetWare Users Group *http://www.computerquest.com/cns/ocnet/* Web site that lists meeting topics, dates, and membership info. [Exp. #169.]

PFSA *http://www.pfsa.org* A non-profit professional organization of fleet managers, supervisors, and technicians serving the greater SF Bay Area and Northern California. [Exp. #169.]

San Francisco PC User Group *http://www.sfpcug.org/* Open to all persons interested in solutions to problems related to the use of Intel x86 and compatible computers. [Exp. #167.]

San Gabriel Valley Chiropractic Society *http://home.earthlink.net/~bacdoc/sgvcs.htm* A Southern California branch of the California Chiropractic Association, with information and email addresses of the members. [Exp. #168.]

Santa Clarita Valley's PC Group *http://www.smartlink.net/~scvpcg* The Santa Clarita Valley's PC Group dedicated to PC literacy. Come join us. [Exp. #167.]

Sapient Health Network (SHN) *http://www.shn.net* An interactive health information service developed for people with chronic and serious illnesses. [Exp. #168.]

Software Forum *http://www.softwareforum.org* Building success for professionals. [Exp. #168.]

South Bay Apple Macintosh User Group *http://www.sbamug.org* Mac stuff and more. [Exp. #169.]

United Jewish Appeal *http://www.uja.org* Promoting the UJA Federation Annual Campaign and other national activities including: University programs, National Women's Campaign, and its Mission to Israel. [Exp. #169.]

WCG-North Bay Churches *http://pages.prodigy.com/YJCN61A/winewood.htm* Worldwide Church of God north of the Gate. Bilingual Web site, English and Spanish. [Exp. #167.]

Web Guradian *http://www.webguardian.com* Nonprofit Internet watchdog group to assist the cyberconsumer with transaction problems or any Internet related consumer matter. [Exp. #169.]

PERSONAL HOME PAGES

AnthonyD's World And Scanner Service *http://users.aimnet.com/~tonydd/htmlpage/welcome.html* Learn how to create your own Web page with my scan service; law on the Net; free icons. [Exp. #167.]

AOL Secrets *http://members.aol.com/CYNICAL411/index.html* Got AOL? Get AOL secrets. [Exp. #169.]

Beedon's Better Bookmarks *http://www.netcom.com/~beedon/andcats.html* A huge selection of bookmarks and links covering topics such as computers, sports, business, etc. [Exp. #168.]

Bruce Kremer Home Page *http://wwwbcf.use.edu/~bkremer* Drawings and travel journal entries. Art from sketchbooks and diaries, originals suitable for exhibition or publishing. [Exp. #167.]

Cotteg In Moscow *http://old.relis.ru:80/datum/RLine/mr021000.htm* [Exp. #168.]

The Early Eyeball Gaternal Marching Society *http://www.primenet.com/~jlerew/eefms.html* A celebration of Ernie Kovacs. [Exp. #169.]

Edward's Web Page *http://members.tripod.com/~ArDem/ewe.html* A Web page created to be fun, informative, and free. Web tips, facts, links, jokes, and free images. [Exp. #169.]

Gautam's Home Page *http://www.webpage.com/~lhorif/* [Exp. #169.]

GPF Avoidance *http://home.earthlink.net/~tequilayum* Anti-Cable TV, hyperlinks, Carl Sagan tribute, jokes, and more. [Exp. #169.]

Henry's Astrology Page *http://www.geocities.com/Heartland/Plains/8894* Find details about your astrological sign and who you are best compatible with. [Exp. #167.]

Holocaust & Antisemitism *http://www.igc.apc.org/ddickerson/* Focuses on the Holocaust, antisemitism, and Jewish culture and history. [Exp. #169.]

Joe's Secret Stash *http://www2.netcom.com/~aguilarj/secretstash* A virtual rest area for Net surfers, including links and images of the Philippines and Hawaii. [Exp. #168.]

Kelvin's Domain *http://members.tripod.com/~KJiang/index.html* Anime and Manga picture site. Soon to be filled with Japanese animation. [Exp. #168.]

Lee's Home Page *http://www.geocities.com/SiliconValley/Pines/8849* An eclectic site with a surf theme. Links to surfing, weather, software, HTML authoring, law and other interesting sites. [Exp. #167.]

Mark Nelson's Pictures *http://www.earthlink.net/~sjmarky* Annoying digitally-altered black and white photographs. [Exp. #169.]

Middletown (Lake County) Home Page *http://www.lakeweb.net/middletown* [Exp. #169.]

Mkey's Paradoxical World *http://www.cadvision.com/hendym/* I am not content simply to follow orders, I need to know that what I am doing is right. [Exp. #169.]

Nigel's Cool Page *http://www.webspawner.com/users/Nigelspage* A very groovy, cool, neat, fresh site. [Exp. #169.]

Paul Chow Homepage *http://www.rtcs.com/ paul/* Read the story about Paul Chow, Chinese-American dedicated to honoring the Angel Island immigrants. [Exp. #167.]

Phantom's Lair *http://www.js-net.com/phantom* Enter any of three worlds: Vietnam War-era 8th Tactical Fighter Wing's Wolf Pack, My World of Macaws, or Corvette Club Home Page. [Exp. #167.]

Randy's World *http://www.dsp.net/rksar* Great links around the globe, Webmaster central, and info about me. [Exp. #169.]

Refrigerium Early Christian Web Site *http://www.hooked.net/~bless/refrigerium/index.html* An entry point for Early Christian (<500 c.e.) resources on the Internet. [Exp. #167.]

Richard Burnett's Home Page *http://pages.prodigy.com/YJCN61A/burnett.htm* Personal page that includes biography and curriculum vitae for Bay Area recruiters. [Exp. #167.]

Ted Alvy Cosmos Topper Home Page *http://pages.prodigy.com/FNJD74A* Mallard, Captain Beefheart, Little Feat, Neon Park, Firesign Theatre, and more. [Exp. #167.]

Tom's Nice Guy Home Page *http://www.apc.net/niceguy* Dedicated to all those nice guys out there. [Exp. #169.]

TRIZ *http://www.jps.net/semyon/TRIZ0000.htm* TRIZ methodology enhances your creativity and provides a way to solve problems. [Exp. #169.]

XcraniumX *http://pages.prodigy.net/xcraniumx/index.html* Come to XcraniumX for Mp3 Music, Warez, and help with html. [Exp. #167.]

GOVERNMENT/ POLITICS

Corporate Watch *http://www.corpwatch.org* As all the Fortune 500 companies jump onto the World Wide Web bandwagon, who's keeping an eye on them? Corporate Watch is! [Exp. #169.]

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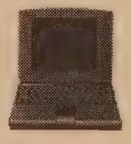

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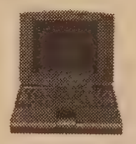

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16-Bit Sound SCSI 29
12X CD-ROM IDE 76
16X CD-ROM IDE 99
24X CD-ROM IDE 125
12X CD-ROM IDE 129

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AMD-K5-133 199
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AMD-K6-200 256K MMX.....539

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4.0GB SCSI 699
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Novell Netware 4.1 10/25 Users.....699/899
10' Cable (TP).....5

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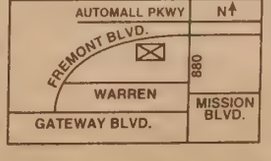

Online Guide

Web Page Listings *continued...*

Health Finder *http://healthfinder.gov* Designed to provide consumers with easy access to the widest range available of online, accurate, up-to-date health information from the US government and its many partners. [Exp. #167.]

Ken's Communist Comics *http://www.geocities.com/Area51/2369/kcc.html* The only communist comics shop in California. Our prices are Marxerific and the service is Maovelous! [Exp. #169.]

Library Of Congress Information Bulletin *http://www.www.loc.gov/ loc/lcib* [Exp. #168.]

Political Ecology Group *http://www.igc.org/peg* PEG is a multi-racial, volunteer-based organization working for environmental justice in the SF Bay Area. [Exp. #168.]

ARTS

The Cannonball Express *http://www2.best.com/~canonbal/* A video project-in-progess about urban firestorms, landscaping, and environmental issues. [Exp. #167.]

CENTURYMAGE: The Memory Of The XX Century *http://www.centurymage.com* Final count down from the April 6th 1997, D-1000 to the 21st century offering artistic and unique photographies, dated and certificated by lawyers. [Exp. #169.]

Dick Swanson Photography—An American Odyssey *http://www.swansonphotography.com* Dick Swanson is a photojournalist with more than 35 years experience covering editorial photo assignments for *Time, Life,* and *National Geographic.* Specializing in people and their culture. [Exp. #169.]

Mansoor Amarna Collection *http://www.amarna.com* A collection of ancient Egyptian limestone carvings, some of which have been exhibited in museums around the world. [Exp. #169.]

Paradigm Group *http://www.paradigm-arts-group.com* A showcase of artworks by a select group of established and emerging artists. [Exp. #169.]

Photos By Lucia *http://home.earthlink.net/~Lucia/* Need a great photographer at reasonable prices? Check out the site of L.A. lens-woman Lucia. [Exp. #169.]

TouchArt *http://members.aol.com/TchHrt/weber2.htm* Poster prints of petroglyphic art. Visa, MC, AmEx [Exp. #169.]

Virtual Colony *http://www.virtualcolony.com* A place in cyberspace for artists, poets, and musicians. [Exp. #169.]

ENTERTAINMENT/ LEISURE

A Games Page *http://www.geocities.com/TimesSquare/8571/index.html* The current game is Diablo. Check for new games coming out. [Exp. #167.]

Action Review With Icestorm *http://www.slip.net/~icestorm/* For the coolest movie reviews, previews, and cinematic essays turn to this award-winning Web site! [Exp. #169.]

Astrology By Moonlight *http://www.masterm.com/astrol.html* Weekly astrology listings by sign. Multiple links. [Exp. #168.]

ATP Tour *http://www.atptour.com* Providing information on the ATP Tennis Tour across North America this summer. [Exp. #169.]

BayNar Model Rocket Club *http://members.aol.com/ddavis6747/rockets/baynar.htm* Model rocketry, NAR affiliated, family-oriented fun for all ages. Model rocket launches every Sunday. [Exp. #168.]

Best Deals In Las Vegas *http://www.geocities.com/WallStreet/8580* Free info on best deals on airfare, hotel, dining, shows, plus gambling strategies! [Exp. #168.]

BPM Music Productions *http://www.harb.net/BPMMUSICPRODUCTIONS* Professionally mixed aerobic soundtracks for today's instructor. [Exp. #169.]

Canon's World of Sport *http://sport.europe.canon.com* The pleasure of sport with special events, games, prizes, chat and much more. [Exp. #169.]

The CD List Guy *http://home.earthlink.net/~searchme/thecdlist.index.html* Rare and not-so-rare music CDs, free email subscription, promos, etc. [Exp. #167.]

Club eXO *http://www.clubexo.com* New York City supper club and discoteque. [Exp. #168.]

College Football Picks *http://www.masterm.com/cfpicks.html* Fourteen weekly college picks, Vegas lines, point spreads. [Exp. #169.]

THe DeaD SouLs HoMe PaGe *http://www.geocities.com/Area51/8426/htdf.html* NIN, Metallica, Soundgarden, Jewel, 311, No Doubt, Garbage, Silverchair, Bush, and more. [Exp. #168.]

Dee Zaster. Esq. *http://www.globalpac.com/umpsm/c5.htm* The DZ gal is bound for Europe—and the continent will never be the same. [Exp. #167.]

DMTHG Productions *http://www.dmthg.com* Home of the Midi Music Machine, Bishop Gallery, Lion Pub, and swinner's photo album. [Exp. #168.]

Dodgers Online *http://www.dodgers.com* Offering seventeen areas for fans to explore, including a tour of Dodger Statium, live video events and interviews, daily game notes, Major League and minor league scores, a Fan's Forum, and more. [Exp. #167.]

Eagle Golf Handicap Service *http://www.eaglehandicap.com/* [Exp. #168.]

Florence Multimedia *http://www.florencemm.com* Florence restaurant, hotel, art, and culture on the Net. [Exp. #168.]

The Funk—Live Music Video *http://www.thefunk.com* Music video from live concerts. [Exp. #168.]

Galapagos Yachts Cruises *http://www.galasam.com.ec* With Galasam, the Galapagos Islands are a paradise for ecotourism, adventure, diving, and birdwatching. [Exp. #169.]

Genghis Angus *http://www.genghisangus* One of the best unheard bands in the new breed of grass roots groups like Hootie and Dave Matthews. [Exp. #168.]

The Great American Baseball Trip *http://www.tmn.com/baseball* A interactive adventure to visit each Major League Baseball stadium. [Exp. #169.]

The GreenWeb—Your Gardening Resource! *http://www.boldweb.com/greenweb.htm* Filled with useful information for gardeners everywhere. Informational articles on growing seeds, medicinal herbs, organic gardening, etc. [Exp. #169.]

GT Weather *http://netcentermall.com/gtweather* Weather reports for recreationists—forecasts, satellite images, live ground crews, and highway conditions. [Exp. #167.]

H. o. B. Film Production Web Site *http://ourworld.compuserve.com/homepages/boakye* British film investment opportunity. We're taking over the Oscars. If you can't beat them join them! [Exp. #168.]

Harley Davidson Spirit *http://www.mygale.org/~harley/* Entertainment, Web cams, photo, chat live, movies, strange pages, and more. [Exp. #169.]

High Voltage Chat *http://www.hvchat.com* Chat with Internet users from around with world in realtime. [Exp. #169.]

Hotel Carasco *http://space.tin.it/turismo/mdelbono/index* [Exp. #168.]

Humor *http://www.masters.com/humor.html* Laff—it's good for your insides. [Exp. #168.]

Island Quest *http://divequest.com* Beginner through technical scuba dive training, travel, and adventure. [Exp. #168.]

J&A Racing Conversions *http://www.jaracing.com* Specialists in radio-controlled model racing car option parts. [Exp. #169.]

The Karaoke Zone *http://pw2.netcom.com/!lilalynn/KARAOKEZONE.html* Providing Karaoke and/or DJ mobile entertainment plus additional entertainment options for any event. [Exp. #168.]

Luis de Matos On Line *http://www.luisdematos.pt* Everything you may want to know about Portugal's top star television magician. [Exp. #169.]

Mental Relapse—Back In The 1960s *http://hyperion.advanced.org/11044* An interactive educational 1960s history site. [Exp. #168.]

Motorcycle Racing With Shawn Higbee *http://www.higbee-racing.com* Professional motorcycle racing information featuring top AMA factory Ducatti Superbike star Shawn Higbee. Racing photos and stories. [Exp. #167.]

The New Adventures of Personnel Man *http://www.earthlink.net/~dcauble/* The world's first civil service-related e-comic. [Exp. #169.]

The Nunavut Handbook *http://www.arctic-travel.com* A travel guidebook that aims to become the most comprehensive guide to the Canadian Arctic is now online. [Exp. #167.]

Official Laser Challenge Web Site *http://www.laserchallenge.com* Laser Challenge information. [Exp. #169.]

OnVideo *http://www.cyberpod.com/cyberpod/onvideo.htm* A complete home video guide to current and forthcoming movies released on tape. [Exp. #167.]

Perry Kurtz Comedy Show *http://ourworld.compuserve.com/homepages/perrycycle* Info on comedian Perry Kurtz, his comedy nights south of LAX, and comedy links. [Exp. #169.]

Pho Nam *http://www.pipeline.com/~phiet/phonam.html* The best Pho Vietnamese restaurant. Three locations—come and check it out. [Exp. #167.]

Planet Hollywood *http://www.planethollywood.es* The world of movies, stars, history, the restaurants and its online merch shop. [Exp. #169.]

Planete Laser *http://www.planete-laser.com* Your specialist for European and international CDs. [Exp. #169.]

Project EBE *http://www.project-ebe.com* Online source for sci-fi happenings and accessories. [Exp. #168.]

Restaurant Row *http://www.restaurantrow.com* Online restaurant guide that allows visitors to sample the menus and take in the ambiance of more than 30,000 international bistros without ever leaving home. [Exp. #169.]

Revenge And Getting Even Gags *http://www.revengeunlimited.com* Revenge unlimited: get even, jokes, tricks, novelties for your ex-wife, ex-husband, boss or neighbor. [Exp. #169.]

Romanian LesBiGays On Internet *http://www.geocities.com/WestHollywood/1811* The first Web site by and for Romanian gays and lesbians. The site contains news, reports, book reviews and travel info to Romania. [Exp. #169.]

Samplemania: Samples On-Line *http://www.samplemania.org* Samples of many instruments and styles all in AIFF and WAV formats for you to use. There will be the possibility to purchase music for you site too. [Exp. #168.]

Sportfishing & Yacht Sales *http://sportfish.net* Boat sales and fishing charters. [Exp. #169.]

continued on page 257

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San Francisco Marketplace is a section devoted to advertisers in San Francisco. To ensure that this resource is always available, *MicroTimes* is guaranteed to be found at selected locations throughout San Francisco (see below).

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•HD COMPUTER
232 Montgomery St., San Francisco
(X Street: Bush St.)

•HI-TEC USA
850 Taraval St., San Francisco
(X Street: 19th Ave.)

•ACTNET
1289 21st Ave., San Francisco
(X Street: Irving Ave.)

•ITS CD
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(X Street: Stanyan St.)

•COMART
444 6th St., San Francisco
(X Street: Bryant St.)

•COMPU DATA
22 Third St., San Francisco
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•DATACOM SYSTEMS
245 Kearny St., San Francisco
(X Street: Sutter St.)

•SOFTWARE CENTER PLUS HARDWARE
501 Howard St.
San Francisco
(X Street: 1st St.)

•LAPTOP SUPERSTORE
250 Bush St.
San Francisco
(X Street: Sansome St.)

•STARLITE ELECTRONICS
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San Francisco
(X Street: 31st Ave.)

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- 32MB RAM Memory Chips
- Enhanced IDE HD/FD Controller
- 2 Hi Speed Serial and 1 Parallel Port
- SONY® 3 ½" internal Floppy Disk Drive
- 2.5GB internal Hard Drive - 12ms
- Genoa Phantom 64 V2001 SVGA
- Windows 95™ Enhanced Keyboard
- Logitech® Mouse - 2 buttons
- E-IDE 12X Internal CD-ROM Drive
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- 14" Super VGA Monitor - 0.28mm dot
- 33.6K FAX and DATA Modem
- Microsoft® Encarta 1997
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- Microsoft® Dangerous Creatures
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Pentium 133MHz Processor	$ 925
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Pentium 200MHz Processor	$ 1050
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200MHz w. MMX Technology	$ 1288
233MHz w. MMX Technology	$ 1449
6x86 133MHz P166+ Processor	$ 899
6x86 150MHz P200+ Processor	$950
K6 166MHz Processor	$ 1088
K6 200MHz Processor	$ 1150
K6 233MHz Processor	$ 1275

KCI Value HOME PC

- Mini Tower Case / Power Supply
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- Intel® 430VX Chipset
- Upgradable to 233MHz with MMX™ Technology and AMD K6 processors
- Award® BIOS, 3 ISA, 4 PCI Slots
- 512K Pipe-line burst Cache Memory
- 32MB RAM Memory Chips
- 4 E-IDE HD and 2 FD Controller
- 2 Hi Speed Serial and 1 Parallel Port
- SONY® 3.5" Floppy Disk Drive
- 3.1GB Enhanced IDE Hard Drive
- Genoa Phantom 64 V2001 SVGA - 2MB
- MPEG / Video CD Ready
- Windows® 95 Enhanced 104 Keyboard
- Logitech® Mouse - 2 buttons - Serial
- 33.6 Internal Fax/Data Modem
- Internal 16X Internal CD-ROM
- OPTI® 16 Bit Soundcard
- JUSTer 50W. PMPO Amplified Speakers
- 15" NI - SVGA Monitor - 0.28mm dot
- Microsoft® Office 97 Professional CD
- Microsoft® Bookshelf included
- Microsoft® Windows 95 CD Software

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K6 166MHz Processor	$ 1299
K6 200MHz Processor	$ 1375
K6 233MHz Processor	$ 1550
Pentium 200MHz Processor	$ 1275
166MHz w. MMX Technology	$ 1299
200MHz w. MMX Technology	$ 1488
233MHz w MMX Technology	$ 1649
6x86 133MHz P166+ Processor	$ 1100
6x86 150MHz P200+ Processor	$ 1188

KCI - Starter PC SPECIALS

- MiniTower Case / 230W Power Supply
- Cyrix® 6x86 - P166+ MHz processor
- CPU Cooling Fan / heatsink
- QDI® SpeedEasy™ Motherboard NO Jumpers to set !
- Intel® 430VX Chipset
- Upgradable to 233MHz with MMX™ Technology and AMD K6 processors
- Award® BIOS, 3 ISA, 4 PCI Slots
- 512K Pipe-line burst Cache Memory
- 16MB RAM Memory
- 2 HI Speed Serial and 1 Parallel Port
- SONY® 3.5" Floppy Disk Drive
- 1.0GB Hard Drive - enhanced IDE
- Genoa Phantom 64 V2001 SVGA - 2MB
- MPEG / Video CD Ready
- Windows® 95 Enhanced Key Keyboard
- Logitech® Mouse - 2 buttons - Serial
- Mousepad included
- Monitor Sold Separately
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233MHz w. MMX Technology	$ 1150
K6 166MHz Processor	$ 775
K6 200MHz Processor	$ 850
K6 233MHz Processor	$999

Super PC

- Mid Tower Case with Power Supply
- Intel® 166MHz Pentium® processor
- Intel® 430TX Chipset
- 512K Pipeline Burst Cache
- Upgradable to 233MHz with MMX™ Technology and AMD K6 processors
- 64 MB EDO RAM Memory Chips
- 2 Serial and 1 Parallel Port
- Award® BIOS, 3 ISA, 4 PCI Slots
- SONY® 3.5" Floppy Drive
- 3.1GB Hard Drive - 12ms
- Matrox Millennium II with 4MB
- 104Keys Windows 95 Keyboard
- Microsoft® Mouse - 2 Buttons
- US Robotics® 56K Modem with x2® Technology
- Panasonic® 24X Internal CD-ROM
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Pentium® II 233MHz Processor	$ 2499
Pentium® II 266MHz Processor	$ 2650
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K6 200MHz Processor	$ 2099
K6 233MHz Processor	$ 2199

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Initio® 9100 - PCI - SCSI II	$ 49.98
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OPTI® 16 Bit Sound Card	$ 19.98
Gallant® ESS® 16 Bit Sound Card	$ 19.98
Mouse	
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Logitech 3 Button Mouse	$ 25.00
Microsoft 2 Button Mouse	$ 29.98

Affordable Upgrades !

- QDI® SpeedEasy™ Motherboard Jumperless, NO Jumpers to set !
- Intel® 430VX Chipset
- Upgradable to 233MHz with MMX™ Technology and AMD K6 processors
- Award® BIOS, 3 ISA, 4 PCI Slots
- 512K Pipe-line burst Cache Memory
- Heatsink and Cooling Fan
- 16MB RAM Memory - EDO or Fast Page
- Genoa® Phantom 64 V2001 SVGA - 2MB

Intel® 120MHz Pentium® Processor	$ 339.98
Intel® 133MHz Pentium® Processor	$ 369.98
Intel® 150MHz Pentium® Processor	$ 399.98
Intel® 166MHz Pentium® Processor	$ 449.98
Intel® 200MHz Pentium® Processor	$ 499.98
with MMX Technology Processors :	
Intel® 166MHz Pentium® Processor	$ 499.98
Intel® 200MHz Pentium® Processor	$ 699.98
Intel® 233MHz Pentium® Processor	$ 869.98
Cyrix® 6x86 - 133MHz P166+ Processor	$ 339.98
Cyrix® 6x86 - 150MHz P200+ Processor	$ 399.98

QDI SpeedEasy Motherboard with 512K Pipeline Cache

Cyrix® 6x86 133MHz P166+ Processor	$ 199.98
Intel® Pentium® 166MHz with MMX™ Technology Processor	$ 389.98
Intel® Pentium® 200MHz with MMX™ Technology Processor	$ 599.98

Peripherals on Sale

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Pentium II-266 (Intel Portland) ATX	$2058
Pentium II-233 (Intel Portland) ATX	1898
Pentium II-266 (Asus or Super Micro) ATX	2048
Pentium II-233 (Asus or Super Micro) ATX	1888
Dual PP-200 (Super Micro) w/1 CPU	1768
PP-200 (Super Micro)	1698
PP-200 (Intel Venus) ATX	1638
MMX-P233/512K (Intel Tucson) ATX	1608
MMX-P200/512K (Intel Tucson) ATX	1498
MMX-P166/512K (Intel Tucson) ATX	1398
MMX-P233/256K (Super Micro)	1538
MMX-P200/256K (Super Micro)	1438
MMX-P166/256K (Super Micro)	1318
P5-200/256K (Super Micro)	1348
P5-166/256K (Super Micro)	1268
P5-150/256K (Super Micro)	1258

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- 16MB EDO RAM (32MB/64MB: Add $60/$180)
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- TEAC 1.44MB 3.5" Floppy Drive
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Pentium II-266 (Asus or Super Micro)	1788
Pentium II-233 (Asus or Super Micro)	1618
P5-200/256K (Intel Mari) ATX	1098
P5-166/256K (Intel Mari) ATX	1018
P5-150/256K (Intel Mari) ATX	1008
MMX-P233/256K (Super Micro)	1288
MMX-P200/256K (Super Micro)	1178
MMX-P166/256K (Super Micro)	1078
AMD K6-200/256K (Super Micro)	1138
AMD K6-166/256K (Super Micro)	1078
P5-200/512K (Asus VX97)	1058
P5-166/512K (Asus VX97)	978
P5-150/512K (Asus VX97)	968

(16MB/1.2GB/16X /33.6)

- 16MB RAM (32MB/64MB: +$60/180)
- 1.2GB EIDE (2.0GB/4.3GB:+$30/$70)
- 16X CD-ROM (24X: Add $40)
- 33.6 Internal Fax Modem w/voice (56.6 w/Voice: +$50) Internet Ready
- Diamond Stealth or ATI w/1MB
- VLB or PCI IDE with I/O
- Sound Blaster 16 PNP & 80W Speakers
- TEAC 1.44MB 3.5" Floppy Drive
- Mid Tower Case with Power Supply
- Keytronics Keyboard for Windows 95
- Free Mouse with Pad
- Free Microsoft Windows 95
- Free CD Deluxe Pack
- Monitor Sold Separately

Internet Ready!

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MMX-P200/256K (Super Micro)	1048
MMX-P166/256K (Super Micro)	938
MMX-P233/512K (Intel Triton TX)	1118
MMX-P200/512K (Intel Triton TX)	1008
MMX-P166/512K (Intel Triton TX)	898
AMD K6-200/512K (Intel Triton TX)	968
AMD K6-166/512K (Intel Triton TX)	898
P5-200/256K (Intel Triton VX)	908
P5-166/256K (Intel Triton VX)	828
6X86-P200+/512K (Intel Triton TX)	818
6X86-P166+/256K (Intel Triton VX)	768
AMD K5-P166/256K (Intel Triton VX)	788
AMD K5-P75/256K (Intel Triton VX)	728
5X86-133/256K VLB-PCI	718

HI-TECH CD-ROM Notebooks

STANDARD CONFIGURATIONS

- 16MB RAM (please see upgrades)
- 2.1GB HDD (please see upgrades)
- 10-Speed CD-ROM
- 1.44 Floppy Drive
- 2MB Display Memory
- Built-In Pointing Device
- 32-Bit PCI Bus
- Built-in Sound Card and Speaker
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- One Type III or Two Type II PCMCIA Slots
- FREE DOS 6.x
- Mini Docking Station Option

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HI-TECH CD-ROM NOTEBOOKS	Dual Scan Color (12.1")	Active Matrix Color (12.1")	Active Matrix Color (13.3")
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MMX-166	$2018	$2568	$3168
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AC Adapter	Add $80
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P77-13TV13 . . . . . $1,465
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Twinhead® SlimNote 9

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- 2MB Video RAM, EDO RAM Upgradable to 64MB
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- Removable EIDE Hard Disk Drive up to 2.1GB
- PCMCIA Slots (2x Type II or 1x Type III)
- Built-in PS/2 Touchpad Pointing Device
- 16-Bit Stereo Sound System w/Built-in Speakers & Microphone
- Weight: 7lbs w/Battery
- Dimensions: 12.15" x 9.3" x 1.8"
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Guaranteed 48-hour Service Turnaround

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SlimNote 9133TVN	(P-133, 11.3" Active, 16/1.3GB/NiMH Batt.)	$2375
SlimNote 9133TZ	(P-133, 12.1" Active, 16/1.3GB/Int 33.6 F/M w/Voice/Li-Ion Batt.)	$2775
SlimNote 9150TZ	(P-150, 12.1" Active, 32/2.1GB/Int 33.6 F/M w/Voice/Li-Ion Batt.)	$3135
SlimNote 9166TZ	(P-166MMX, 12.1" Active, 32/2.1GB/Int 33.6 F/M w/Voice/Li-Ion Batt.)	$3645

Chembook 6800

Specifications:
- Genuine Intel Pentium® CPU Processors
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- 12.1" Dual Scan or Active Matrix Color
- 800x600 Panal Screen and 1280x1024 on External CRT
- Removable 1.44MB Floppy Drive
- Removable 1.3GB Hard Disk Drive (1.3/2.1GB Optional)
- PCMCIA Slots (3x Type II or 1x Type II and 1x Type III)
- Built-in PS/2 Touchpad Pointing Device
- 16-Bit Stereo Sound System w/Built-in Speakers & Mic
- Internal 11X CD-ROM
- Built-in 1MB Mask ROM Hardware Wavetable
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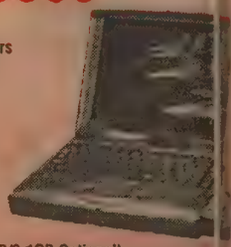

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P-133MHz	$1725	$2225
P-150MHz	$1735	$2235
P-166MHz	$1755	$2255
P-166MHz MMX	$1895	$2385
P-200MHz	$1875	$2375
P-200MHz MMX	$1985	$2485

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Intel Pentium® Pro 200MHz CPU w/Internal 256K Cache
Intel Venus Pentium® Pro/MB w/512K Cache
Pentium® Pro Cooling Fan
32MB EDO RAM • Teac 1.44MB 3.5" FDD
WD 3.1GB EIDE Hard Drive • Toshiba 16X Int. IDE CD-ROM
ESS 16-Bit Stereo Sound Card
Archtek 33.6 Fax/Modem w/Voice (Rockwell Chipset)
Matrox Mystique PCI/2MB SGRAM Video Card
Medium ATX Tower Case w/235 Watt Power Supply
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Mitsumi 104 Key Keyboard
Logitech PS/2 Mouse w/Mousepad
200 Watt Stereo Speakers
Win 95 Full OEM CD Version
System Price: $1895

Pentium® System

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Teac 1.44MB 3.5" FDD
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Teac CD512E 12X Int. IDE CD-ROM
ESS 16-Bit Stereo Sound Card
Archtek 33.6 Internal Fax/Modem w/Voice (Rockwell Chipset)
Diamond Video 2121 PCI/1MB EDO DRAM Video Card
Mini Tower Case 230W PS
Sampo KM-511 15" SVGA .28mm Monitor (Dell OEM)
Mitsumi 104 Key Keyboard • MS Compatible Serial Mouse
Plain Color Mouse Pad • 200 Watt Stereo Speakers
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- P-166MMX $1165
- P-200MMX $1295
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Intel Pentium® 166MHz CPU Processor
586 CPU Cooler
32MB EDO RAM Module
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Diamond Video w/ 2MB EDO DRAM
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Sampo KM-511 15" SVGA .28mm Monitor
Mitsumi 104 Key Keyboard
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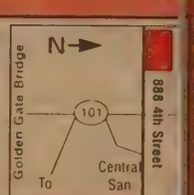

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- Teac 1.44MB 3.5" Floppy Drive
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- 2 Serial, 1 Parallel
- 14" SVGA Monitor .28dp NI
- PCI VGA Card w/1MB
- 101 Keyboard
- Mini Tower Case
- Windows 95
- Serial Mouse w/Pad
- 8X CD-ROM Drive
- 16-Bit Sound Card
- Stereo Speakers

120MHz	$1100
133MHz	$1130
150MHz	$1150
166MHz	$1215
200MHz	$1265

486 Computer System w/256K

- 8MB RAM
- Teac 1.44MB 3.5" Floppy Drive
- 1.2GB IDE Hard Drive
- 2 Serial, 1 Parallel
- 14" SVGA Monitor .28dp NI
- PCI VGA Card w/1MB
- 101 Keyboard
- Mini Tower Case
- Windows 95
- Serial Mouse w/Pad
- 8X CD-ROM Drive
- 16-Bit Sound Card
- Stereo Speakers

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NCL 539 Controller	$50
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Trident VLB VGA Card w/1MB	$50
Trident PCI VGA Card w/1MB	$49
Diamond Stealth PCI VGA Card w/1MB	$79
Diamond Stealth 3D PCI VGA Card w/2MB	$105
Diamond Stealth PCI VGA w/2MB VRAM	$149
Adaptec 2940U PCI SCSI Controller	$205
Adaptec 3940U PCI SCSI Controller	$Call
SMC 8432T PCI Network Card	$85
SMC 8432BT Combo PCI Network Card	$99
SMC 10/100 9332BDT PCI Network Card	$159
Intel Pro/100 PILA8465B PCI Network Card	$95
3Com 3C905TX PCI Network Card	$95
3Com 3C900 Combo PCI Network Card	$139
3Com 590CB ISA Network Card	$139
NE2000 ISA Network Card	$39
NE2000 PCI Network Card	$49
Toner KX-P450	$39.95
Toner KX-P453	$38.95
Toner KX-P451	$39.95

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ATX Case Med-Tower Case w/230W Power Supply	$95
ATX Case Full-Tower Case w/230W Power Supply	$119
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US Robotics	
Sportster 33.6 Int. Fax Modem	$149
Sportster 33.6 Ext. Fax	$169
Practical Peripherals	
PP 33.6 Int. Fax	$139
PP 33.6 Ext. Fax	$155
Supra 33.6 Int. Fax	$99

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Creative Labs 8X Value CD Kit	$239
Creative Labs 8X Discovery Kit	$265
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16X Int. CD-ROM Drive	$129
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ESS1868 16 Bit PnP Sound	$40
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Mitsumi 101 Keyboard	$30
Chicony Ergonomic Keyboard	$49
Chicony KB5981 Click Keyboard	$35
Focus 2001 Click Keyboard	$40
Keytronic Keyboard	$30

MEMORY CHIPS

DRAM	
256K-8/10	$1.25
256Kx4-8	$5.50
64K-10	$1
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4MBx9-7	$Call
1MBx9-7/8	$Call
1MBx3-7/8	$Call
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EDO Memory 1x32/2x32/4x32/8x32	$Call

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NEC 15/17" SVGA Monitor	$Call
14" SVGA Monitor 1024x768 .28dp NI	$195
15" SVGA Monitor 1280x1024 .28dp NI	$290
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MOTHERBOARDS

486DX4 133MHz PCI w/256K	$Call
120MHz Pentium® Processor w/256K Cache	$Call
133MHz Pentium® Processor w/256K Cache	$Call
150MHz Pentium® Processor w/256K Cache	$Call
166MHz Pentium® Processor w/256K Cache	$Call
200MHz Pentium® Processor w/256K Cache	$Call

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FUJITSU	
M1636TAU 1.2GB IDE	$189
M1623TAU 1.7GB IDE	$205
M1624TAU 2.1GB IDE	$225
M1638TAU 2.5GB IDE	$240
SEAGATE	
ST31720A 1.7GB IDE	$199
ST32132A 2.1GB IDE	$229
ST52520A 2.5GB IDE	$245
MAXTOR	
82560A 2.5GB IDE	$255
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AC33100 3.1GB IDE	$289
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HP Colorado T3000 3.2GB	$195
CNR/ST 800MB Int. Backup	$139
CNR/ST 800MB Ext. Backup	$159
CNR TST3200R 3.2GB	$195

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Logitech Serial Mouseman	$49.95
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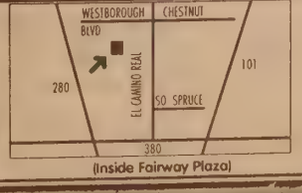

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- Creative Lab Sound Blaster 16 Bit/AWE 64 PnP Stereo Sound Card
- Surround Sound 240W Speaker System w/Subwoofer

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Pentium® II Processor 266/233MHz w/GVC M/B $4019/3840
Pentium® II Processor 266/233MHz w/Intel M/B $3980/3800
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- Supports up to 512MB RAM/ECC In 4-8 72pin Simm
- Plug & Play Compliant
- Intel PD 440FX Chipset
- Pentium® II Processor-233/266MHz
- 512K L2 Cache
- Intel Heat Sink & Cooling Fan/Alarm B/B
- 32MB 60ns EDO RAM up to 1GB
- Quantum 4.3GB Enhanced IDE Hard Drive
- 2 Hi-Speed (16C550 Fast UARTs) Serials & 1 Enhanced Parallel
- Mitsumi 1.44MB 3.5" Floppy Drive
- Diamond Stealth 3D Virge 4MB EDO DRAM W/MPEG Screaming 64-Bit Graphics
- Artmedia TX1864 17" .25NI 1280x1024 @ 60Hz Trinitron Monitor
- Keytronic 104 Windows 95 Keyboard
- Logitech Mouseman 3-Button Combo Mouse
- Deluxe File Server Tower w/300W UL PS/Open Side Door
- Toshiba EIDE 24X Speed 85ms 4100KB CD-ROM
- US Robotics Sportster 56 S/R Fax Modem
- Creative Lab Sound Blaster 16 Bit/AWE 64 PnP Stereo Sound Card
- Surround Sound 240W Speaker System w/Subwoofer

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NEW!

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- Supports up to 512MB RAM/ECC In 4-8 72pin Simm
- Plug & Play Compliant
- Intel 440 FX Chipset
- Dual/Single Pentium® Pro Processor(s) 150/180/200MHz
- 256K/512K Cache
- Intel Heat Sink & Cooling Fan/Alarm B/B
- 64MB 60ns EDO RAM up to 1GB /64MB SDRAM up to 512MB
- IBM 4.3GB Ultra Wide SCSI 5400RPM/512KB
- Adaptec 2940/7880UW Ultra Wide PCI SCSI Controller
- 2 Hi-Speed (16C550 Fast UARTs) Serials & 1 Enhanced Parallel
- Mitsumi 1.44MB 3.5" Floppy Drive
- ATI 3D Pro Turbo PC2TV 4MB SGRAM VGA Card up to 8MB
- Viewsonic 17GS Monitor 17" .27NI 1280x1024 65Hz Trinitron
- Keytronic 104 Windows 95 Keyboard
- Logitech Mouseman 3-Button Combo Mouse
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- Creative Lab Awe 64 Value PnP Stereo Sound Card
- US Robotics Sportster 56 S/R Fax Modem
- Intel EtherExpress Pro/100B PCI Network Card

Dual Single Pentium® Pro Processor 200MHz w/Asus M/B $4119/3587
Pentium® Pro Processor 200MHz w/Intel M/B $4236/3704
Pentium® Pro Processor 200MHz w/Super Micro M/B $4012/3479
Pentium® Pro Processor 200MHz w/Tyan M/B $3998/3466
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Advanced Power SCSI System with Intel's Pentium® Pro Chip

NEW!

- Intel 440 FX Chipset-Based Motherboard
- Award BIOS, Zif Socket 8
- 4 PCI, 3 ISA Slot
- Plug & Play Compliant
- Intel 440 FX (Natoma) Chipset
- Pentium® Pro Processor-150/180/200MHz
- 256K Cache
- Intel Heat Sink & Cooling Fan/Alarm B/B
- 32MB 60ns EDO RAM up to 128MB
- Quantum 3.2GB Ultra SCSI 5400rpm/512K Hard Drive
- Adaptec 2940UW Ultra Wide SCSI Controller on Board
- 2 Hi-Speed (16c550 Fast UARTs) Serials & 1 Enhanced Parallel
- Mitsumi 1.44MB 3.5" Floppy Drive
- ATI 3D Pro Turbo PC2TV 4MB SGRAM VGA Card up to 8MB
- MGC 17" .26NI 1600x1280 65Hz Plug & Play Flat Monitor
- Keytronic 104 Windows 95 Keyboard
- Logitech 3-Button PS/2 Mouse
- Deluxe ATX Medium Tower Case 235W Power Supply
- Toshiba SCSI 15X 160ms 2400KB CD-ROM
- Creative Lab Awe 64 Value PnP Stereo Sound Card
- Surround Sound 170W Speaker System
- US Robotics Sportster 56 S/R Fax Modem

Pentium® Pro Processor 200MHz ...$2575
Pentium® Pro Processor 180MHz ...$2405
Pentium® Pro Processor 150MHz ...$2263

Windows NT 4.0 Workstation/Server-Setup & Tested .....Add $160/$Call
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Deluxe Pro System with Intel's Pentium® Pro Chip

NEW

- Intel Advanced/VS Motherboard
- Intel/AMI Flash BIOS, Zif Socket 8
- 3 PCI, 3 ISA, 1 Shared Slot
- Intel 440 FX Triton Chipset-Based Motherboard
- Pentium® Pro Processor-150/180/200MHz
- 256K Cache
- Intel Heat Sink & Cooling Fan/Alarm B/B
- 32MB 60ns EDO RAM up to 128MB
- Quantum 3.2GB Enhanced IDE Hard Drive
- 2 Hi-Speed (16550 Fast UARTs) Serials & 1 Enhanced Parallel
- Mitsumi 1.44MB 3.5" Floppy Drive
- Expert S3 3D Virge 4MB EDO DRAM w/MPEG Screaming 64-Bit Graphics
- Impression 17" .27NI 1280x1024 65Hz Window 95 Plug & Play Monitor
- Qtronix 104 Windows 95 PS/2 Keyboard
- Logitech 3-Button PS/2 Mouse
- Deluxe ATX Form Medium Tower Case 230W UL CSA Power Supply
- Toshiba IDE 16X 95ms 2400KB CD-ROM
- Crystal 16-Bit Sound Card on Board
- Surround Sound 170W Speaker System
- Diamond Supra 56K w/Voice S/R Fax Modem
- Microsoft Windows 95 Release 2 w/CD & Manual

Pentium® Pro Processor 200Mhz $2057
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Microsoft Office Professional 97....Add $165

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NEW

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- Intel TC430HX Chipset Based Motherboard
- PC '95 Compliant Including Windows
- Supports Universal Serial Bus
- Supports Intel MMX Processor
- Support Pentium® Processor 120/133/166/200/233Mhz MMX
- Heat Sink & Cooling Fan
- 512K Pipeline Burst Cache
- 32MB 60ns EDO RAM up to 128MB
- Quantum 3.2GB Enhanced IDE Hard Drive
- 2 Hi-Speed (16550 Fast UARTs) Serials & 1 Enhanced Parallel
- Diamond Stealth 3D Virge 4MB EDO DRAM w/MPEG Screaming 64-Bit Graphics
- Axion 15" .28NI 1280x1024 60Hz Digital Monitor
- Keytronic 104 Windows 95 Keyboard
- Logitech 2-Button PS-2 Mouse
- Deluxe ATX Form Medium Tower Case 235W UL Power Supply
- Toshiba IDE 16X 95ms 2400KB CD-ROM
- Yamaha OPL 3 FM Synthesizer Stereo Sound Card
- Surround Sound 170W Speaker System
- Mitsumi 1.44MB 3.5" Floppy Drive
- Diamond Stealth 3D Virge 2MB EDO DRAM w/MPEG Screaming 64 Bit Graphics
- Supra 33.6 V.34 w/Voice S/R Fax Modem
- Microsoft 95 Release 2 w/CD & Manual

Pentium® Processor-233MMX.....$1653
Pentium® Processor-200MMX/200Mhz...$1551/1518
Pentium® Processor-166MMX/166Mhz...$1455/1367
Pentium® Processor-133/120Mhz $1332/1309
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Deluxe EIDE Multimedia Systems with AMD/Cyrix/Intel's Pentium® Chip

NEW!

- ASUS TX97-E Smart Motherboard
- Intel 430TX Chipset-Based Motherboard
- Supports Intel/Cyrix/AMD MMX Processor
- PC 97 Compliant, ACPI Ready, Award BIOS
- 3 PCI, 4 ISA, 1 ASUS Media BUS, 4 SIMM, 2 DIMM up to 256MB
- AMD K6/Cyrix 6x86/Pentium® Processor 120/133/166/200MHz MMX
- Heat Sink & Cooling Fan
- 512KB Pipeline Burst Cache
- 32MB 60ns EDO RAM up to 128MB
- Quantum 4.3GB Enhanced IDE Hard Drive
- 2 Hi-Speed (16550 Fast UARTs) Serials & 1 Enhanced Parallel)
- Mitsumi 1.44MB 3.5" Floppy Drive
- Diamond Stealth 3D Virge 4MB EDO DRAM w/MPEG Screaming 64-Bit Graphics
- Axion 17" .28NI 1280x1024 65Hz Window 95 Plug & Play Monitor
- Keytronic 104 Windows 95 Keyboard
- Logitech 3-Button Serial Mouse
- Deluxe Medium Tower Case 23-W Power Supply
- Toshiba IDE 24X Speed 95ms 2400KB CD-ROM
- Creative Lab Awe 64 Value PnP Stereo Sound Card
- Sourround Sound 240WSpeaker System w/Subwoofer
- Diamond Supra 56K w/Voice S/R Fax Mode
- Microsoft 95 Release 2 w/CD & Manual

AMD K6-233MMX.....$2091
AMD K6-200/166MMX.....$1851/1799
Cyrix 6x86-P166.....$1650
Pentium® Processor-233MMX.....$2016
Pentium® Processor-200 MMX /200.....$1914/1880
Pentium® Processor-166 MMX /166.....$1818/1730
Pentium® Processor-133/120Mhz $1695/1671
Microsoft Office Professional 97 .....Add $165

New Family Multimedia System with AMD/Intel's Pentium® Chip

NEW!

- Intel 430VX Triton Chipset-Based Motherboard
- AMD K6/Cyrix 6x86/Pentium® Processor
- Heat Sink & Cooling Fan
- 512KB Pipeline Burst Cache
- 16MB 60ns EDO RAM up to 128MB
- Fujitsu 1.7GB Enhanced IDE 10ms Hard Drive
- Mitsumi 1.44MB 3.5" Floppy Drive
- S3 Trio 64 V+ 1MB w/MPEG Screaming 64-Bit Graphics
- Hyundai 14".28NI 1024x768 60Hz Monitor
- Qtronix 104 Windows 95 Keyboard-Serial
- Logitech 2-Button PS/2 Mouse
- Deluxe Mini Tower Case 230W Power Supply
- Toshiba IDE 16X Speed 95ms 2400KB CD-ROM
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- Pontech 60W 2-Way Amp Speakers
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- Bitrix 33.6 v.34 S/R w/Voice Fax/Modem
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AMD K6-166 MMX $1089
Cyrix 6x86-P166Mhz.....$940
Pentium® Processor-233MMX.....$1324
Pentium® Processor-200MMX/200Mhz...$1205/1171
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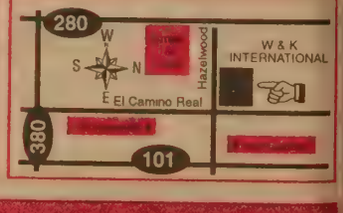

Industry Insights *continued from page 25*

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	SOFTWARE											
NAS	Adobe		ADBE	42 44	37.13	-5.31	-12 52	15	0.20	0.54	49.00	28.50
NAS	Autodesk		ADSK	36 25	38.75	2.50	6.90	-	0.24	0.62	40 88	18 50
NAS	Borland		BORL	7 13	6.75	-0.38	-5.26	-	0.00	0.00	9.13	4 75
NAS	Broderbund		BROD	27 63	24.06	-3.56	-12.90	344	0.00	0.00	38.25	17 75
NAS	Informix		IFMX	9.88	9.31	-0.56	-5.70	-	0.00	0.00	31.13	6 56
NAS	Macromedia		MACR	9.50	8 50	-1.00	-10.53	-	0.00	0.00	25.63	6.50
NAS	Microsoft	(H)	MSFT	120.38	129.56	9.19	7.63	57	0.00	0.00	134.94	53.75
NAS	Novell	(L)	NOVL	7.63	7 34	-0.28	-3.69	17	0.00	0.00	14 06	6 28
NAS	Oracle	(H)	ORCL	47 50	49.75	2.25	4.74	41	0.00	0.00	53.50	33.25
NAS	Symantec	(H)	SYMC	19.25	19.44	0.19	0.97	41	0.00	0.00	20.44	8.75
	HARDWARE											
NAS	Apple	(L)	AAPL	16.69	13.69	-3.00	-17.98	-	0.00	0.00	27.75	13 00
NYS	Compaq		CPQ	99.38	108.88	9.50	9.56	21	0.00	0.00	110.38	40.50
NYS	Digital Equipment		DEC	35.13	36.56	1.44	4.09	-	0.00	0.00	42.88	25.00
NAS	Dell	(H)	DELL	108.44	122.38	13.94	12 85	36	0.00	0.00	123.50	20.25
NYS	Gateway 2000	(H)	GTW	31.06	32.56	1.50	4.83	19	0 00	0.00	37.75	13 88
NYS	Hewlett-Packard		HWP	50 88	56.38	5.50	10.81	21	0.56	0.99	60.00	37.75
NYS	IBM	(H)	IBM	82.88	94.81	11 94	14.40	17	0.80	0.84	94.81	44.63
NYS	Silicon Graphics		SGI	17.25	17.00	-0 25	-1.45	-	0.00	0.00	28.38	12 63
NAS	Sun Microsystems	(H)	SUNW	33.69	37.13	3.44	10.20	22	0.00	0.00	38.75	22 00
NYS	Tandy	(H)	TAN	53.50	56.38	2.88	5.37	-	0.80	1.42	57.75	37.13
NYS	Xerox	(H)	XRX	66.63	81.13	14 50	21.76	23	1.28	1.58	81.13	44.63
	CPU'S											
NYS	Advanced Micro Devices		AMD	37.50	35.94	-1.56	-4.17	-	0.00	0.00	48.50	10.25
NYS	Cypress Semiconductor		CY	13 38	14.94	1.56	11.68	53	0.00	0.00	16.63	9.13
NAS	Cyrix		CYRX	24.13	20.13	-4.00	-16.58	-	0.00	0.00	30.00	11 50
NAS	Intel		INTC	143 13	144 94	1.81	1.27	21	0.24	0.17	169.75	64.13
NYS	LSI Logic		LSI	38.75	31 63	-7.13	-18.39	29	0.00	0.00	46.88	17.00
NYS	Motorola	(H)	MOT	65 63	80 44	14.81	22.57	45	0.48	0.60	80.44	44.13
	COMMUNICATIONS											
NAS	3Com		COMS	44.19	47.88	3.69	8.35	-	0.00	0.00	81.38	24.00
NYS	AT&T		T	35 50	36.00	0.50	1.41	10	1.32	3.67	42.63	30.75
NYS	BellSouth Corp.	(H)	BLS	43 63	47.63	4.00	9.17	18	1.44	3.02	48.63	33.25
NAS	Cisco		CSCO	64 75	71.56	6.81	10.52	42	0.00	0.00	75.75	44 75
NAS	MCI	(H)	MCIC	39.00	42.38	3.38	8.65	24	0.05	0.12	42.38	22.38
NYS	Northern Telecom	(H)	NT	87.50	96.50	9.00	10.29	39	0.60	0.62	96.50	45 00
	INTERNET											
NAS	Earth Link		ELNK	12 25	12 25	0.00	0.00	-	0 00	0.00	22 50	8.63
NAS	Netcom		NETC	15 25	14 88	-0 38	-2.46	-	0.00	0.00	27.75	7 88
NAS	Netscape		NSCP	32 50	37.44	4 94	15.19	129	0.00	0.00	65.50	23 50
NAS	Yahoo	(H)	YHOO	32.44	33.50	1.06	3 28	-	0.00	0.00	39 38	13.50
	MEDIA											
NYS	Disney		DIS	80.75	77.25	-3.50	-4.33	29	0.53	0.69	85.13	53 25
NAS	TCI		TCOMA	14.44	15.56	1.13	7.79	-	0.00	0 00	18.50	10.75

KEY: NYS = NEW YORK ASE = AMERICAN NAS = NASDAQ
(H) = NEW HIGH REACHED IN PERIOD (L) = NEW LOW REACHED IN PERIOD

MARKET DIARY:

ADVANCES	25
DECLINES	13
UNCHANGED	1
NEW HIGHS	14
NEW LOWS	2

MOST ACTIVE ISSUES:

LARGEST DOLLAR GAINER	Motorola	$ 14.81
LARGEST DOLLAR LOSER	LSI Logic	$ -7.13
LARGEST PERCENTAGE GAINER	Motorola	22.57 %
LARGEST PERCENTAGE LOSER	LSI Logic	-18 39 %

	CLOSE 06-05-97	CLOSE 07/03/97	NET CHANGE IN PERIOD	PERCENT CHANGE IN PERIOD
MICROTIMES STOCK INDEX	9223.00	9842.13	619.13	6.71
DOW JONES INDUSTRIAL AVERAGE	7305.29	7895.81	590.52	8.08
STANDARD & POOR'S 500 INDEX	843.43	916.92	73.49	8.71
N.Y.S.E. COMPOSITE	441.64	477 68	36.04	8.16
NASDAQ COMPOSITE	1390.05	1467.61	77.56	5.58

CLOSING QUOTES FOR GRAPH:

DATE	MICRO TIMES	DOW JONES
12/12/96	8341.27	6303.71
01/20/97	8729 83	6843 87
02/13/97	8809.79	7022.44
03/13/97	8310.08	6878.89
04/10/97	8083.85	6540.05
05/08/97	9110.24	7136.62
06/05/97	9223.00	7305.29
07/03/97	9842.13	7895 81

Source: Nordby International Inc. (nordby.com), Boulder, CO.
This information is based on sources believed to be reliable, and while extensive efforts are made to assure its accuracy, no guarantees can be made. Nordby International assumes no liability for any inaccuracies. For information on Nordby's customized financial research services, call (303)938-1877.

Stocks nationwide were fanned by the fumes of a smoking US stock market, igniting a furious rally in technology stocks during the month ending July 3.

When the smoke had cleared, here is how the *MicroTimes* Stock Index fared for the 30-day period: It rocketed 619.13 points, or 6.71%, en route to a new record high of 9842.13. The old record for our indicator was 922.3.00 set on June 5 of this year. In comparison, the Dow Jones Industrial Average took wing to the tune of 8.08% before pausing to catch its breath at a new record high of 7895.81.

Of the 39 stocks in the accompanying table, gainers outpaced losers by nearly a 2:1 ratio. More impressively, those stock hitting new 52-week highs bested those stocks falling to new lows by a 7:1 ratio.

Turning To Companies In The Spotlight

Motorola was kind to its stockholders last month, as it rose a stout $14.81 a share, 22.6%, to a new 52-week high of $80.44 a share. Last month, SoundView Financial Group analyst Albert Lin initiated coverage of the company with a short-term buy and long-term hold rating. Motorola was the largest dollar- and percentage-gainer of the porfolio for the period.

Xerox closed the monthly trading session at a new 52-week high of $81.13, up $14.50 a share, or 21.8%, also on bullish comments from Wall Street. Specifically, Morgan Stanley initiated coverage of the company with a strong buy recommendation, while Prudential Securities analyst Alex Henderson raised his 12-month price target for the stock from $85-$95 per share.

IBM notched a $11.94-a-share gain last month en route to a new 52-week high of $94.81. Last month, Gary Helmig, an analyst at SoundView Financial, reiterated his buy rating on the stock, saying the company is "solidly on track for the quarter." Helmig added, "PCs are still very strong, hard disk drives are sold out, the mainframe disk storage based on Iceberg is sold out." ■

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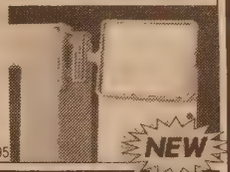

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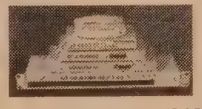
US Robotic Compatible 33.6 Fax/Modem Voice(Int)	69
33.6 SAVD Fax/Modem Voice(Ext)	85



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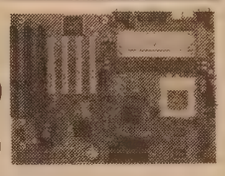

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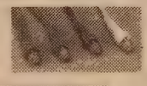

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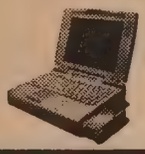
P-166 MMX	16MB	2.0GB	10.4" TFT	$4029	F1360A



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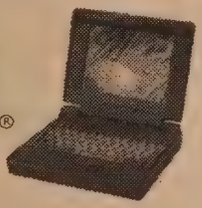

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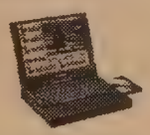

5DX P-133MMX, 16/1.3GB, 10X CD-ROM, 12.1"DSTN $1979
5T P-133, 16/2.0GB, 10X CD-ROM, 12.1"TFT. $2379
5TX P-150MMX, 16/2.0GB,10X CD-ROM, 12.1"TFT, 33.6 Modem $3219
5T P-133, 16/1.3GB,12.1"TFT $2659

NOTEBOOK CD-ROM

DDONICS
ortable 8X Parallel Port Atapti CD-ROM $249
X w/16-Bit Sound $325
2X Parallel Port $289
2X w/16-Bit Sound $359

PC HARD DRIVES

Quantum™

2.5GB EIDE QM 2550A $229
3.2GB EIDE QM 32200A 215
2.1GB SCSI QM 2110S 269
3.2GB SCSI QM 32275W 339
4.5GB SCSI QM 34550SW 739

Maxtor®

2.1GB EIDE 8218TA $185
2.5GB EIDE 82560A 215
3.5GB EIDE 83500A 245
5.0GB EIDE 85120A 365

MICROPOLIS

4.5GB SCSI M4345NS 8.5ms 3.5" $699
9.1GB SCSI M3391NS 9ms 5.25" 1149

WESTERN DIGITAL

1.2GB EIDE 12ms AC31200 ..... $169
1.6GB EIDE 10ms AC31600 185
2.1GB EIDE 12ms AC32100 205
2.5GB EIDE 12ms AC32500 215
3.1GB EIDE 12ms AC33100 229
4.0GB EIDE 12ms AC34000 295

Seagate

1.2GB EIDE ST31276A 165
1.7GB EIDE ST31720A 175
2.1GB EIDE ST32132A 185
2.5GB EIDE ST32531 205
9.0GB SCSI ST19171N 1149
9.0GB SCSI Wide ST19171W 1219

SVGA LCD Projectors

Model	LCD Type	ANSI Lumens	Proj. Size	True Res.	Price
NEC MT 800	3-Panel	370	20"-400"	800X600	$5795
Infocus LitePro 220 D	1-Panel	250	33"-250"	800X600	$3895
3M MP 8030	3-Panel	500	20"-300"	800X600	$5259
Proxima DP9100	1-Panel	300	52"-161"	1024X768	$10125
ViewSonic PJ800	3-Panel	550	20"-300"	800X600	$4595

EXTERNAL SCSI DRIVE CASES

- High Quality Metal Cases
- 2 Centronics Output
- Noise-Free Fan
- External SCSI ID Switch
- Power Cable & Hardware

3.5" or 5.25" Half Height $59/65
Two (2) 5.25" Half Height 95
Four (4) 5.25" Half Height 149

APC

AMERICAN POWER CONVERSION

BACKUP POWER SUPPLIES AT

APC 280VA Back-UPS $109
APC 450VA Back-UPS 199
APC 600VA Back-UPS 259
APC 1000 Backup-UPS Pro $385
APC 1000 Smart-UPS 469
APC 1400 Smart-UPS 599

MONITORS

PROTON

15"	GM-1562C	1280x1024	.28	$249
17"	GM-1765B	1280x1024	.25	475

SAMSUNG

17"	17GLi	1280x1024	.28, AT 60Hz	$595
17"	17GLSi	1600x1200	.26, AT 68Hz	649
20"	20GLSi	1600x1200	.28, AT 66Hz	1235

HITACHI

15"	CM500U	1280x1024	.28	$329
17"	CM620U	1280x1024	.28	529
17"	CM630U	1600x1200	.22	665
21"	CM800U	1600x1200	.22	1375
21"	CM802U	1600x1200	.22	1695
21"	CM803U	1800x1440	.22	1839

VIEWSONIC

14"	E641	1024x768	.28	$219
15"	15GS	1280x1024	.28, LR	345
15"	E655	1280x1024	.28, LR,	299
17"	G771	1280x1024	.27, LR, PC & Mac	569
17"	17GA	1280x1024	.27, LR, Spk, Mic, PC & Mac	615
17"	17PS	1600x1280	.27, LR, PC & Mac	679
20"	G800	1600x1280	.28, LR, PC & Mac	1015
21"	P810	1600x1280	.25, LR, PC & Mac	1349
21"	P815(New)	1800x1440	.25, LR, PC & Mac	1499

SONY

15"	100SX	1280x1024	.25, LR	$369
15"	100SF	1280x1024	.25, LR, PC & Mac	399
17"	200SX	1280x1024	.25, LR, PC & Mac	649
17"	200SF	1280x1024	.25, LR, PC & Mac	739
20"	300SFT	1600X1200	.25, LR	1549

NEC

14"	C400	1024x768	.28 LR	$279
15"	M500	1280x1024	.25 LR w/5PK	385
17"	P750	1280x1024	.25, LR,	869
17"	XV17+	1280x1024	.28, LR, PC & Mac	655
21"	P1150	1600x1200	.28	1745

TAPE BACKUPS

Seagate TAPE DRIVES

3.2GB Internal w/Tape 199
4.0GB Internal SCSI TSM 4000RSBE 319
8.0GB Internal SCSI STD 28000n DAT 779

COLORADO MEMORY SYSTEMS INC.

800MB T-1000 Internal $129
3.2GB T-3000 Internal w/Tape 185
8.0GB T-4000S SCSI II w/Tape 369

iOMEGA TAPE DRIVE

2.0GB Internal. $169
3.2GB Int./Ext 209/259

iOMEGA ZIP/JAZ DRIVE

100MB Zip Drive IDE Internal (OEM) $125
100MB Zip Drive SCSI or Parallel Ext 149/149
100MB Zip Cartridge 3 Pak/10 Pak 45/130
1GB JAZ Drive Int./Ext. SCSI 295/379
1GB JAZ Cartridge 1PCS/3 Pak 95/275
5 Pak/10 Pak 439/860

PRINTERS

HEWLETT PACKARD

LASERJET PRINTERS

6LXi, 1MB, 6ppm, 600dpi $399
6PXi, 2MB, 8ppm, 600dpi 749
6MP, 3MB, 8ppm, 600dpi 895
4V, 4MB, 16ppm, 600dpi 1795
4MV, 12MB, 16ppm, 600dpi 2595
5, 4MB, 12ppm, 600dpi 1035
5N, 4MB, 12ppm, 600dpi 1339
5M, 6MB, 12ppm, 600dpi 1569
5Si, 4MB, 24ppm 2419
5SiMX, 12MB, 24ppm 3469
Color LaserJet 5, 20MB 7B, 3 Color 3779
Color LaserJet 5M, 36MB, 7B, 3 Color 4769

DESKJET PRINTERS

670C 600x600 ..... $225
690C 600x600 305
870CXI 600x600 479
1600C 600x600 1289
1600CM 600x600 w/PS 1889

EPSON

LQ-2070 Plus 24 Pin 135 Columns $399
LQ-570 Plus 24 Pin 80 Column 269
STYLUS Color 400 720x720 4 Black 3 Color 229
STYLUS Color 600 1440x720 6 Black 4 Color 289
STYLUS Color 800 1440x720 8 Black 7 Color 425

SCANNERS

HP SCANJET 4C HEWLETT PACKARD

- 2400-dpi enhanced resolution - 600dpi optical w/adobe Photoshop LE
- Calera Word Scan OCR Software $739
- **Scanner Jet 5S for PC Color** 269

5P, 24-Bit, Color 300dpi 399

COPYJETS

Copyjet Color 7 Black/3 Color ppm $1675
Copyjet M Color 7 Black/3 Color ppm 2339

HP TONER CARTRIDGES

HP 92275A HP IIP, IIP+, IIIP $79
HP 92295A HP IID, II, III, IVD 69
HP 92291A HP IIISi, IVSi 119
HP 92298A HP4 4+, 4M, 4M+, 5, 5N, 5M 99
HP 92274A HP4L, 4P,4MP 65
HP C3903A HP 5P, 5MP 81
HP C3906A HP 5L 65

✓ VGA CARDS

ATI
3D Expression 2MB EDO PCI $75
3D Expression 2MB Mach-64 PCI SG RAM 109
3D Expression 4MB Mach-64 PCI SG RAM 129
DIAMOND
Stealth 64 2MB DRAM PCI $79
Stealth 64 2MB VRAM 125
Stealth 64 4MB VRAM 169
OTHERS
S3 (765) PCI w/1MB MPEG $39
Trident 9680 PCI w/ MPEG 35
MATROX
Millennium II 1600x1280 (OEM) 4MB/8MB WRAM (up to 16MB) $219/289
Upgrade module for Millennium 4/6/12MB $135/215/295
Matrox Mystique 220 2/4MB SGRAM $119/155

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Spotlight

Updates

Durand Communications, Inc. has upgraded **CommunityWare**. Durand Communications, Inc., 147 Castilian Dr., Santa Barbara, CA 93117. (805)961-8700, or URL: *http://www.durand.com* .

Fujitsu Software Corp. has announced **LiveHelp v3.0**. Fujitsu Software Corp., 3055 Orchard Dr., San Jose, CA 95134. 1-800-626-4686, or URL: *http://www.fujitsu.com* .

Harlequin Inc. has introduced **ScriptWorks 4.5**. Harlequin, Inc., One Cambridge Center, Cambridge, MA 02142. (617)374-2400, or URL: *http://www.harlequin.com* .

Helios Software has released its freeware AppleTalk LAN utility, **LanTest 2.0**. Download for free at *http://www.helios.de* . Helios Software, 269 Mt. Hermon Rd., Ste. 100, Scotts Valley, CA 95066. (408)461-6061, or *info@ugraf.com* .

Maximizer Technologies Inc. has shipped **Maximizer MARKETbuilder**. Free download at *http://www.maximizer.com* . Maximizer Technologies, Inc., 1090 West Pender St., 9th Floor, Vancouver, B.C. V6E2N7, Canada. (604)601-8000, or *info@maximizer.com* .

Navision Software, Inc. has announced **Navision Financials 1.20**. Navision Software, Inc., 500 Pinnacle Ct., Ste. 510, Norcross, GA 30071. (770)798-8300, or URL: *http://www.navision-us.com* .

Number Nine Visual Technology Corp. has made available a performance-enhancing software package for Imagine 128 Series 2 users: **HawkEye 4.5**. Download for free at *http://www.nine.com* . Number Nine Visual Technology Corp., 18 Hartwell Ave., Lexington, MA 02173. 1-800-438-6463, or URL: *http://www.nine.com* .

Shira Computers has introduced **Image Manager 1.6**. Shira, Inc., 1600 Wilson Blvd., Ste. 710, Arlington, VA 22209. (703)527-6630, or URL: *http://www.shira.com* .

TIMESLIPS Corp. has unveiled **Timeslips Deluxe for Windows, v8.0**. $199. TIMESLIPS Corp., 17950 Preston Rd., Ste. 800, Dallas, TX 75252. 1-800-285-0999, or URL: *http://www.timeslips.com* .

Virtual Emporium has launched **v3.0** of their Web site, ***http://www.virtualemporium.com*** . Virtual Emporium, 1340 Third St. Promenade, Santa Monica, CA 90401. (310)899-5080, or URL: *http://www.virtualemporium.com* .

Product Announcements

Accessories

WinPAD

PCcomfort has introduced WinPAD, an angled mouse pad that reduces hand, elbow, and shoulder movement, allowing a computer user to move the cursor across the entire span of a monitor while the wrist remains in place and supported at a comfortable angle. More than 40 million people now work on computers and most work on them far longer than the recommended limit of three hours per day; 80% of these users work with flat mouse pads on surfaces that are too high for comfort. Such conditions may place pressure on the neck, back and shoulders, and for this reason mouse pads should be inclined at an angle to better accommodate individuals. The WinPAD's ergonomic design helps to relieve strain that could result in Repetitive Strain Injuries (RSIs). For more information, contact PCcomfort, 5220 West 104th St., Los Angeles, CA 90045, (310)410-1311.

CD-ROM

Power Chinese

Power Chinese is a CD-ROM language course that lets you teach yourself to effectively speak, understand, read and write Mandarin Chinese in as little as eight weeks. Designed for business people, professionals, and anyone who wants to learn Chinese, Power Chinese teaches the equivalent of one year of college-level Chinese. Power Chinese differs from traditional, grammar-based learning approaches by focusing on the rapid acquisi-

HSC Electronic Supply

Serving Silicon Valley since 1964!

...brings you a potpourri of high-tech goodies for the techno-tinkerer!
For thirty years we have been your source for Silicon Valley exotica!

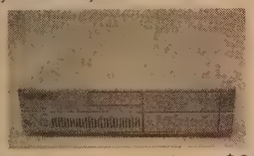
486 Motherboard

- Motherboard for the 486 Faithful -- All you need is the chip!
- "Baby AT" size 8.5" x 13", six 16-bit slots, two 8-bit slots
- Uses 33MHz 486 CPU (not included)
- Eight 30-pin SIMM sockets, AMI BIOS
- 64K Cache installed (can be upgraded to 256K)
- New in box - 90 day HSC warranty

HSC#16827 **$24.95**

486 Base System Box

- Grid Systems "Sabre" 486-system box, used
- 486SX-25 CPU (upgradable to DX2-66)
- 4MB DRAM included, 1MB SVGA port on-board
- One 72-pin and eight 30-pin SIMM sockets available
- Four ISA slots open
- Two 3.5" & two 5.25" drive bays
- IDE, Serial, Parallel ports on board
- Optional Enhanced IDE Controller available, $5.00 extra
- Phoenix Flash BIOS
- High-quality case & overall design
- Plug in your drives and go!
- 90-day HSC warranty



HSC#16850 **$99.00**

Small Mono-VGA Monitor

- 9" diagonal measure paper-white phosphor VGA monitor
- Used briefly then removed from service -- Like new!
- Perfect for traveling presentations, point-of-sale, etc.
- SVGA, VGA compatibility, 45MHz
- Only 9.25" x 9.75" x 9.125" high
- Non-Glare screen, swivel base
- 30-day HSC warranty

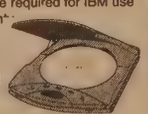
HSC#16823 **$99.00**

Absolute Last of the Red Hot Reno!

- Now at clearance price -- Media Vision *Reno*:
  - Consists of new external Reno CD/ROM drive,docking bay with SCSI2 port, AC Adapter, cable kit, travel pouch, headphones
  - Late Model version Uses AC adaptor (included) or AA alkaline batteries (not included)
  - Double-speed 180mS drive is lightning fast!
  - Drive detaches from docking bay, use with headphones as a portable personal audio CD player
  - Great for Mac or IBM (adaptor bracket included)
  - Mac software included
  - SCSI Controller & software required for IBM use
  - Brand new, 90-day warran

A.

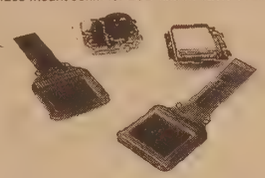
Now - $59.00



Available Separately:
A. Macintosh Powerbook SCSI Adapter (HDI-30 to 25-pin D connector) **HSC#15704 $12.50** if purchased alone, or with purchase of Reno Kit,**$5.00**

Ultimate Video Hack!

- Only the brave need apply, but what a great gizmo!
- Tiny, postage-stamp sized LCD screens -- in color!
- Fluorescent backlight runs on 5VDC
- Color LCD active area is 14.6mm x 11.2mm
- Overall size of board is 15/16" square!
- Backlight board is 1" square, including tube, inverter
- Resolution is 505 x 230 pixels, RGB delta pattern
- Originally made by Matsushita for virtual reality goggles
- One LCD and one backlight board is $9.95/set
- Buy two sets for only $17.50!
- Includes data sheet with pinouts, specs
- Surface mount conn. for LCD ribbon cable available, $1



HSC# 16536 Tiny LCD/Backlight set **$9.95 ea.**

Sound Card with SCSI

- Mediavision **ProSonic 16** sound card / SCSI controller
- 16-bit audio, 44.1KHz stereo sound
- MPU 401 MIDI emulation, Soundblaster compatible
- Internal SCSI CD-ROM port, microphone jack (mike not included), line-in, speaker jack, joystick port
- Includes driver disk, installation information
- OEM package, 90-day warranty

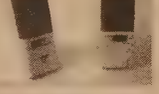
HSC#16683 **$29.95**

Super Sounding Speakers!

Tired of the cheesy sound coming from those give-away speakers in your multimedia kit? Try upgrading to these sonic wonders...you'll have to hear them to appreciate the difference these will make without blowing your budget!

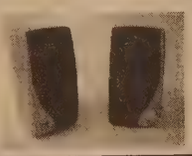
GNT2500 2-way Bass-Reflex speakers
- 3.5" woofer, 1" piezo tweeter
- 15W built-in amplifiers, 80W peak, 5.4W RMS
- 40 - 20,000 Hz, built-in SRS 3-D stereo
- Measure approx. 3.75" x 6.125" x 9.25" tall
- AC adaptor, audio cables included
- On-off switch, 3-D switch, tone & volume controls
- Attractive off-white finish with grey grille-cloth

HSC#16670 **$29.95**



GNT3500 3-way Bass-Reflex speakers
- 4" woofer, 2" midrange, 1" piezo tweeter
- 23W built-in amplifiers, 120W peak, 20W RMS
- 20 - 20,000 Hz, built-in SRS 3-D stereo
- Measure approx. 6.25" x 6.5" x 9.75" tall
- AC adaptor, audio cables included
- On-off switch, 3-D switch, bass, treble & volume controls
- Attractive off-white finish with grey grille-cloth

HSC#16671 **$39.95**



PCI Video Accelerator Cards from Media Vision!

Just in...blazing fast and screaming fast "ProAxcel" VGA accelerators from Media Vision! Both support MPEG, AVI, and other full-motion video formats. Check out the review on the Web at http://goinside.com/97/4/pro.html --Both cards are new in box and have a 90-day HSC Warranty

PROAxcel

- Blazing fast 64-bit graphic & video card
- PCI Bus card with 1MB RAM, expandable to 2MB
- Uses proprietary chipset (Alliance Semi ProMotion 6410)
- Resolutions up to 800 x 600, 64K colors with 1MB
- Up to 1600 x 1200, 256 colors, 800 x 600, 16M colors (requires 2MB) -- Upgrade chipset available, $7.50
- 30 fps full-screen video playback possible (90MHz Pentium)
- Win95, NT & 3.1 drivers and full manual on CD-ROM
- If you can not read CD's, diskettes are available, $2 extra

HSC#16807 **$29.95**

PROAxcel 128

- Screaming fast 128-bit graphic & video card!
- PCI Bus card with 2MB RAM, expandable to 4MB
- Uses Tseng Labs ET6000 chipset, MDRAM technology for incredible 128-bit data path at 75 Hz refresh
- Resolutions up to 1024 x 768, 64K colors with 2MB
- Resolutions up to 1280 x 1024, 16M colors (with 4MB)
- Integrated 135MHz VGA compatible 24-bit DAC
- 30 fps full-screen video playback possible (90MHz Pentium)
- Win95, NT & 3.1 drivers on CD-ROM, printed manual

HSC#16808 **$49.95**

PCMCIA Sound Card

- Turtle Beach Systems "Audio Advantage" Card
- Add multimedia capability to your PCMCIA notebook
- Windows drivers, sound program etc. in "Zip" file
- Adapter plug allows connection of speakers, microphone
- New, OEM packaged, ninety day HSC warranty
- Mfr. offers fax-back or e-mail support for this product

HSC#16521 **$79.95**

SCSI Device Cases

16185 16559 16575 16820

- Horizontal style case, 9.5" x 2.5" x 10.5", 30 watt power supply, fan cooled, room for 5.25" drive, front access
  HSC#16185 **$29.95**
- Upright Case, 3.5" x 5.5" x 8.125", has front opening for 3.5" drive, 20 watt power supply, no fan
  HSC#16559 **$24.95**
- Deluxe quality case, 7" x 4.5" x 10.75", made for Olympus Optical, has 5.25" open front bay, SCSI diagnostic indicator on rear panel, 30 watt fan-cooled power supply, IEC power cord included. Assembled in USA.
  $49.95
  HSC#16575
- Case, similar to above, 7" x 4.5" x 10.5", for 5.25" or 3.5" drives, beefy 65 watt fan-cooled power supply
  HSC#16820 **$29.95**

All cases are new, and feature 50-pin Centronics-style daisy-chain connectors, internal 50-pin cable and SCSI ID switch.

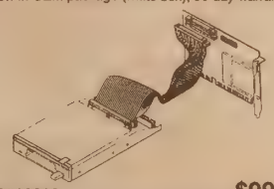
Peltier Cooler at a Price!

- Made for cooling ceramic Pentium Processors (not metal)
- Heatsink is 2" x 2.875", .5" thick
- Mounted 12VDC fan
- Peltier device is 1.125" square, has copper plate for thermal mounting on CPU
- Unit is new, and much cheaper than the separate parts!
- Perfect for Peltier experiments!

HSC# 16106 **$24.95**

Son of SwapBox!

- Just in time...we ran out of the regular SwapBoxes!
- IBM Compatible Reader/Writer for PCMCIA Cards with built-in 1.44 MB Floppy drive...fits in standard floppy bay!
- SwapBox Combo by SCM Microsystems for ISA bus
- Convenient front access for slots (not in rear of system)
- Dual slot, Type I, II or III, hot swappable
- Perfect for transferring data or hardware from laptops, notebooks or other PCMCIA peripherals to desktop PC's
- Directly supported by Windows 95 - no drivers needed!
- Includes DOS driver disk, manuals, cable, internal card
- New in OEM package (white box), 90-day warranty



HSC#16819 **$99.95**

Pentium Ready Kit!

- Packard Bell Desktop system -- plug in your Pentium!
- ATX-style motherboard supports up to 133 MHz Pentium
- Four slots (Three ISA Bus, One PCI Bus)
- On-board EIDE controller, Flash BIOS, OK cache RAM
- On-board VGA, 1MB, expandable to 2MB
- On-board Floppy controller, SIO, PIO
- On-board 8MB RAM, four open 72-pin SIMM sockets
- Case is 16.5" square, 4.5" high, has 5.25" & 3.5" bays
- Desktop Case, Power Supply, 1.44MB Floppy drive
- Speakers, 104-key Win95 Keyboard included
- All you need is a Pentium chip, hard disk, monitor & mouse!
- All new parts, 90-day warranty

HSC# 16851 Pentium-Ready Kit **$329.00**

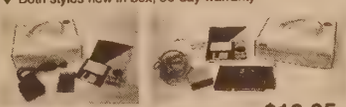
Ethernet Card Closeout

- 10-Base-T style Network card for ISA Bus computers
- NE-2000 compatible, for twisted pair networks
- AE2/T by Artisoft -- Name brand quality!
- New in sealed box, ninety-day HSC warranty
- Driver software is on 5.25" disks -- be forewarned: if you only have a 3.5" drive, you will have to get a friend to copy!
- Note: not for "dumb" nodes, does not have boot ROM

HSC#16539 **$19.95**

Infrared Connections!

- IBM "Options" series ISA-Bus and PCMCIA card adaptors will add industry standard infrared communications capability to your desktop PC (with ISA slots) or notebook computer! (May not be Win95 compatible)
- Allows wireless connection to compatible notebooks, workstations, printers, and other peripherals supporting the Infrared Data Association (IrDA) standard.
- Also will emulate a COM port for cable-less hook-ups
- Communicates up to 115KBps, or up to 1.152MBps with the included TranXit Software.
- Operates over distances up to 3 meters (10 ft.)
- Includes Card, transceiver module, driver disk & book
- Both styles new in box, 90-day warranty



HSC#16483 PCMCIA Version **$19.95**
HSC#16813 ISA-Bus Version **$19.95**
Or a package deal...get both for **$29.95**

Visit HSC's Website!

- Pay us a virtual visit on the World Wide Web!
- Simply point your browser to *http://www.halted.com*
- Site is constantly being revised, please visit often!
- Check out the amazing "Gizmo of the Week" feature!

New HSC Catalog !

- Hot off the presses! First one in four years! The wait is over!
- Seventy-six pages of electronics, from ordinary to exotic!
- Phone, fax, write or email to get your copy
- Or drop on by and pick one up...we'd love to see you!

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Product Announcements *continued...*

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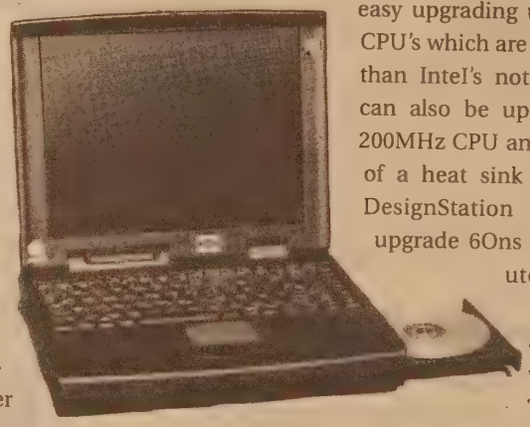


Linux OS: The Professional Edition

Built on by over 5 million users, Linux OS: The Professional Edition is a 32-bit multi-user/multi-tasking operating system. This UNIX-like clone gives the user a complete Linux operating system with compilers, a myriad of advanced distributions, programming language tools, complete site archives, libraries, ports, and a host of applications. Linux OS: The Professional Edition allows users to construct inexpensive networks, provide Internet and intranet servers, run POP service for email and communications, plus it allows for programming, compiling, debugging and advanced software processing. Users also get over 2,000 pages of documentation that details step-by-step installation, system administration, tutorials for each distribution, programming "How-To" instructions, plus internal structures documentation. For more information, contact Walnut Creek CD-ROM, 4041 Pike Ln., Ste. F, Concord, CA 94520. 1-800-786-9907, *info@cdrom.com* , or URL: *http://www.cdrom.com/* .

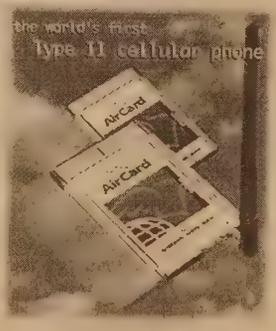
Laptops

DesignStation Notebooks

CAC is proud to announce a new line of full-featured DesignStation Notebooks that offer you easy upgrading using Intel standard desktop CPU's which are less costly and more efficient than Intel's notebook CPUs. The processor can also be upgraded to an Intel desktop 200MHz CPU and has the additional benefits of a heat sink and cooling fan. The CAC DesignStation Notebook allows you to upgrade 6Ons EDO RAM memory in minutes—the memory area is located under the keyboard and can snap in place easily without any special tools. The Notebooks feature a 1.3GB hard drive, 1.44MB floppy drive, 12.1" SVGA dual-scan color display, a Zoomed video port, NTSC/PAL video output, two Type II or one Type III PCMCIA ports, a Windows 95 keyboard, a glide point mouse, Windows 95 OS, a carrying case, NiMH battery and a 33.6Kbps fax/modem. Pricing starts at $2195. For more information, contact CAC (Computer Applications Company), 3020 Giant Rd., Ste. 250, San Pablo, CA 94806. (510)412-3870.

AirCard

The first product in Sierra's joint development relationship with Compaq, AirCard is a new PC Card modem and cellular phone solution which allows notebook computer users to easily implement a wireless computing solution with minimal configuration. The FCC-approved AirCard solution includes a full-function 33.6Kbps wireline and cellular modem featuring MNP10, v42bis and ETC. AirCard operates nationwide, wherever cellular service is available in North America. AirCard also supports Cellular Digital Packet Data (CDPD), the leading encrypted wireless packet data service now available in over 100 North and South American cities. AirCard fits into any laptop computer with Type II PC Card slots and is powered directly through the computer's PC Card connector; nothing protrudes out of the computer except AirCard's retractable, removable antenna. The modem card connects to the AirCard cellular card which includes a complete cellular AMPS and a data transmitter. The AirCard Combo two-card set lists for $895. For more information, contact Sierra Wireless, Inc., #260 - 13151 Vanier Pl., Richmond, B.C., V6V 2J2, Canada. 1-800-351-4727, *sales@sierrawireless.com* , or URL: *http://www.sierrawireless.com* .



Software

Printdesk 2.0

ScenicSoft, Inc., has introduced Printdesk 2.0, an advanced print management system for the Macintosh. Printdesk 2.0 offers an easier setup architecture, faster and more compatible image handling, and a suite of powerful features such as View File Masking (where users can create masks during view file creation), Drop Folders (where Printdesk automatically queues incoming jobs), an Integrated Calibration Tool, and EPS pre-separation. With Printdesk 2.0's new setup architecture, setup is done automatically so users can install and set up the complete server in minutes. Printdesk 2.0 also handles TIFF, EPS and DOS files from both Macintosh and Windows, making conversion steps unnecessary. For more information, contact ScenicSoft, Inc., 11400 Airport Rd., Everett, WA 98204-3745, (206)355-6655, or URL: *http://www.scenicsoft.com* . ■

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intel (Made By Intel)

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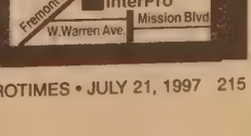


Gulch GOSSIP

by Jonathan E.

For the latest CD-ROM and software news & reviews, see our Product Spotlight section starting on page 212

Off To A Good Start!

A footnote to last month's **Welcome To The Age Of Muddled Media**, the Multimedia 101 look at the introduction of digital TV: In my continuing research, I later went to a page on the Microsoft Web site, *http://www.microsoft.com/windows/tv/details.htm* , which contains a link to Microsoft's White Paper on the future of digital television. The downloaded document, supposedly in Microsoft Word, won't open on my Mac, and it crashed the Windows machine I tried it on! Anybody out there still wondering why I'm skeptical about the brave new media age so fulsomely promised by assorted industry visionaries and hacks?

Why I'm Skeptical Part II

IN A RECENT CONVERSATION WITH A FRIEND, I learned that the famous millennium dating problem of the **Year 2000** has been known about since 1971, the year that the problem first became apparent to financial institutions with a need to write programs for calculating 30-year mortgages.

Excuse me, but why is the problem still news 26 years later and, perhaps more importantly, why in this age of ever-flowing information has it now become a crisis? Or is it not a crisis, but merely yet another exaggerated concoction of the mass media to satisfy their psychotic need to swing wildly between horrifying technophobic and adulatory technophiliac stories? Or is there really a secret cabal of COBOL programmers who conspired to keep the problem quiet all these years so that they could now reap the benefits?

Why I'm Skeptical *And* Cynical

A LINE FROM A RECENT PRESS release sent me tumbling down a rough slope of loose association. "Players join the netWAR community to meet opponents, trade battle secrets, . . . " and blah, blah, blah, it read.

Usually when any marketing or tech concern blathers on about community, I just check for my credit cards to make sure they haven't been hijacked. I don't buy this line about giant commercial enterprises giving a damn about community. They're after your money and that's that. The rest is just public relations and some dishonest marketing strategy.

But in this case my mind wouldn't stop chewing over the peculiar juxtaposition of **netWAR and community.** Granted, most communities have some level of friction—but why would you want to join one "to meet opponents?" Or is it some gaming geek's idea of a good time to spend one's life in eternal strife?

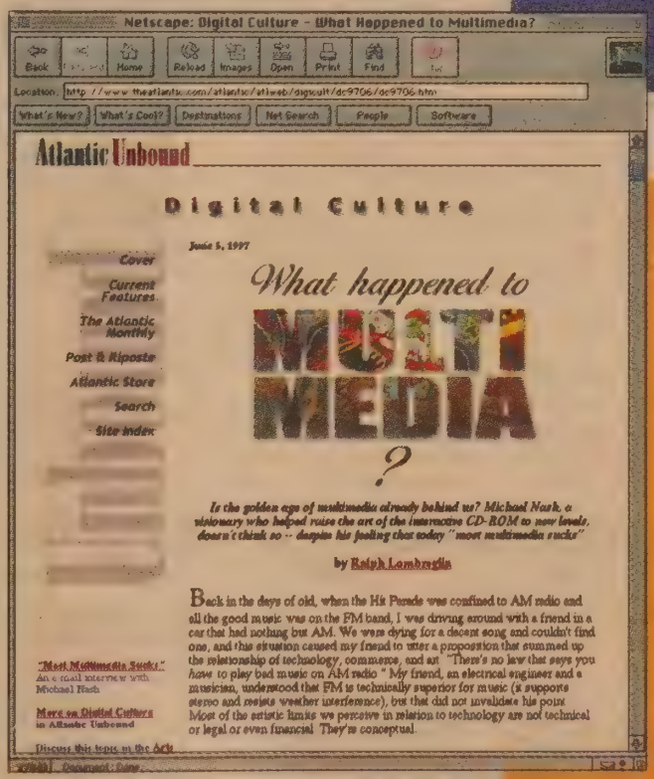
What is it about the tech field that encourages such boyish idiocy? Do we really want to live in a world shaped in so many ways by such twitch-reflex thinking? What sort of a superficial culture is being espoused here? Why are so many usually smart people shucking off their critical thinking to gaily prance behind the Pied Piper of technology? Are they the rats, or are they our children? Oh! Perhaps I do protest too much! Perhaps it would be better to just go with the flow and shoot anything that moves!

Reading Matters

THERE'S A TSUNAMI OF NOSTALGIA IN AT LEAST SOME QUARTERS FOR the glory days of multimedia, which appear to have been anytime between the early 1980s and 1995 depending on who is writing.

In "What Happened To Multimedia" on *The Atlantic*'s Web site, **Atlantic Unbound**, at *http://www.theatlantic.com/atlantic/atlweb/digicult/dc9706/dc9706.htm* , **Ralph Lombreglia** examines the various multimedia productions of **Michael Nash**, including **The Residents' Freak Show** and **Bad Day On The Midway**, and asks such questions as "Will his pioneering work in multimedia be seen someday as the equivalent of the high-quality drama that once graced commercial television?" and "Is multimedia's artistic heyday already over?" A quick link will open *http://www.theatlantic.com/atlantic/atlweb/digicult/dc9706/nash.htm* , an email exchange between Lombreglia and Nash, wherein Nash baldly states that "most multimedia sucks" (hell, it's also the title of the page) and lays portions of the tattered corpse at the feet of the robber barons—sorry, I mean the venture capitalists—and the ever-credulous and incredible mass media.

In the world of print, **Denise Caruso** (currently a visiting scholar at Interval Research and teaching a course on interactive media at Stanford) has an inspiring piece in *I. D.*'s special issue, ***Interactive Media Design Review***. The best of new media design, both on disc and online, is featured with a brief description of each project, interviews with the Best of Category winners, and some intriguing graphics. Since print just about by definition ain't up to the job of displaying new media, the magazine comes with a CD-ROM—but, for once, no Web site! Pick it up at a newsstand for a mere $5.95.


Netscape: Digital Culture - What Happened to Multimedia?
Atlantic Unbound
Digital Culture
June 5, 1997
What happened to MULTI MEDIA ?
Is the golden age of multimedia already behind us? Michael Nash, a visionary who helped raise the art of the interactive CD-ROM to new levels, doesn't think so -- despite his feeling that today "most multimedia sucks"
by Ralph Lombreglia
Back in the days of old, when the Hit Parade was confined to AM radio and all the good music was on the FM band, I was driving around with a friend in a car that had nothing but AM. We were dying for a decent song and couldn't find one, and this situation caused my friend to utter a proposition that summed up the relationship of technology, commerce, and art. "There's no law that says you have to play bad music on AM radio." My friend, an electrical engineer and a musician, understood that FM is technically superior for music (it supports stereo and resists weather interference), but that did not invalidate his point. Most of the artistic limits we perceive in relation to technology are not technical or legal or even financial. They're conceptual.

In her "Stand And Deliver" introduction to the review, Caruso confesses that "After almost 10 years of exposing myself to thousands of seriously toxic CD-ROMs and Web sites, my tolerance appeared to be finally and completely shot." She continues with words that I wish I had written on the subject of interactive media and its multiple deficiencies and recalls the days "when everything we saw fairly dripped with art or passion, always with aspiration to some higher purpose."

Caruso

My favorite lines come as she describes the "second curse" of interactive media: "interactive projects designed by old-media designers who took pride in knowing as little as possible about computers or technology, or—even more annoying—little baby twenty-something Web programmers commanding incredibly high fees to know nothing about the existing body of knowledge of interactive media or software design."

If you're wondering, the first curse was the premature commercialization of interactive media—read that email exchange with Nash in Atlantic Unbound for more background on that.

Eventually, Caruso regains her hopes for interactive media from the students in her Stanford class who are "chomping at the bit to get out there

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Scitex At U2

IF I'D HAD $100 ON JUNE 19 I MIGHT HAVE BOUGHT A TICKET to the **EFF**'s benefit at **The Fillmore**, but I didn't, so I let **Scitex Digital Video** buy me a ticket to see **U2** at the Oakland Coliseum—or more specifically to see the video thrown up on the giant LED screen behind the band by Scitex's **Abekas Dveous**, digital effects system.

For a few minutes, it was quite glamourous being in a skybox—until we discovered that the only free beer was Budweiser and that we had to go to the concession stands to buy anything drinkable at $5.25 a glass. The opening band, **Oasis**, were quite dreadful—some of the most boring music I've heard in a long time and they didn't get to use the video screen so we could barely pick out their little ant figures. During the intermission, we were told what a wonderful video system Scitex had provided for this show of all shows. Finally, the long-awaited moment came and U2 did their thing, strutting and preening, posing and projecting. And, yes, thanks to the video system we could see it all on the big screen mixed with effects and canned graphics footage.

Certainly there was little reason to be there other than to view the screens. But, somehow it seems to me that seeing one's image blown up to such King-Kong proportions might have dangerous effects upon a rock star's ego. Soon the dreary musical content and somewhat overly flashy video became unbearable any longer and we crept away from the stadium long before the show was over. The masses seemed to still be enjoying themselves in the peculiar way the masses have. As we left, I could not help but be glad that **Hitler** did not have such image-making technology available to him—he did enough damage with the relatively limited propaganda resources available to him. In this day and age, the wanna-be dictator has so many more ways to bend reality and impress the gullible with almost any message—or no message.

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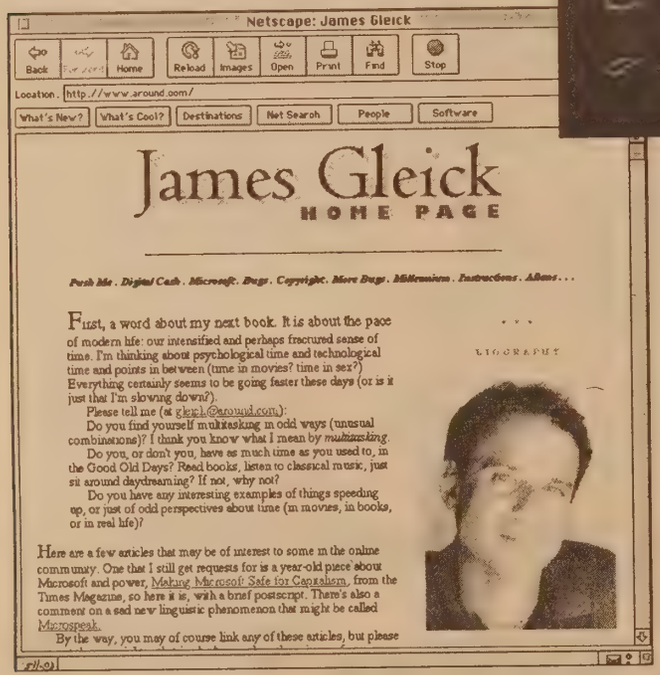
GULCH GOSSIP *continued from page 217*

and make some truly great stuff, stuff that moves and inspires them." It's highly recommended reading for those who are trying to make sense out of the whirlwind that's rushed through our lives and the multimedia industry over the past half-decade.

For another disaffected opinion on the wonders of the digital age, read the words of **James Gleick** on his **Around** site, *http://www.around.com* . Most of these pieces were first published in print in **Fast Forward**, Gleick's monthly column on technology and the future for the *New York Times Magazine*. He has trenchant and witty things to say about the shortcomings of Microsoft amongst other digital "issues," which I was delighted to learn is the code word at Microsoft for what others are honest enough to call "bugs."

Gleick has fun stomping around telling the truth about digicash, push media, and, yes, the Millennium bug. He knows the territory that he writes about. In 1993, along with **Uday Ivatury**, he founded **The Pipeline**, an Internet service that pioneered the first full-featured graphical user interface for Mac and Windows machines. Previously he wrote a couple of books: *Chaos: Making a New Science* and *Genius: The Life and Science of Richard Feynman*, both nominated for the National Book Award. Even **Bill Gates** reads his words and gets in a huff about them—so don't you think you should too?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First, a word about my next book. It is about the pace of modern life: our intensified and perhaps fractured sense of time. I'm thinking about psychological time and technological time and points in between (time in movies? time in sex?) Everything certainly seems to be going faster these days (or is it just that I'm slowing down?).
Please tell me (at gleick@around.com):
Do you find yourself multitasking in odd ways (unusual combinations)? I think you know what I mean by multitasking.
Do you, or don't you, have as much time as you used to, in the Good Old Days? Read books, listen to classical music, just sit around daydreaming? If not, why not?
Do you have any interesting examples of things speeding up, or just of odd perspectives about time (in movies, in books, or in real life)?
Here are a few articles that may be of interest to some in the online community. One that I still get requests for is a year-old piece about Microsoft and power, Making Microsoft Safe for Capitalism, from the Times Magazine, so here it is, with a brief postscript. There's also a comment on a sad new linguistic phenomenon that might be called Microspeak.
By the way, you may of course link any of these articles, but please

Finally, for the most disaffected view, I suggest reading "What Is Inflation?" by **Jonathan Rowe**, senior fellow at Redefining Progress right here in San Francisco, in the summer issue of the ever-lovable **Journal of the Mental Environment, *Adbusters***. And, hey! If you can't be bothered to go to the newsstand, here's the URL: *http://www.adbusters.org/Articles/inflation.html* .

Rowe argues that the recent debate over the Consumer Price Index overstated the role that high tech plays in reducing the rate of inflation. Principally, because technology is providing us with a lot of stuff we don't need or want but we still have to pay for, it isn't really doing anything to lower inflation. Though it's aimed more as a barb at economists, I suggest it as reading for designers and others in the high-tech field who are trying to understand just what it is we consumers might want in their tech products—if we want them at all. But, of course, we do!

I must confess that at first I get a quiet giggle, but then an unpleasant stifling feeling of being trapped, from the fact that, for all its protesting against the commercial culture we're enmeshed in, *Adbusters* ultimately uses many of the same tools and media techniques used by the big boys. Of course, *Adbusters* uses them with a lot less force and coercion. The rest of the summer issue of *Adbusters* is perhaps even slightly better than its usual pointed, culture-jamming critique of consumer culture.

My, those tools work well—better take 'em away from those subversive types!

Toolin' @ Tonga

SO YOU WANNA BE A BIG INTERNET MOGUL—BUT THAT FANCY DOMAIN NAME you need for the perfect marketing scheme is locked away by some schmuck who's doing nothing more ambitious than selling hamburgers or putting music videos out over some cable system?

Not to worry—for a while at least, any domain name you want is available all over again!

How?

It's simple really. All the domain names are in the top level domain of Tonga. That's right, instead of having *mcdonalds.com* , you'll get *mcdonalds.to* ! To obtain yours just go to the **Tonic Corporation**'s fully automated site at *http://www.tonic.to* and register the groovy names you covet.

The Tonic Corporation is based, naturally enough, in the **Kingdom of Tonga**, a hereditary constitutional monarchy and the only South Pacific nation never to be colonized. And the corporation is connected! **H.R.H. Crown Prince Tupouto'a**, minister for Foreign Affairs and Defense, is a major shareholder.

Word of this fabulous scheme comes from **Eric Gullichsen**, one-time resident of Sausalito now living in Tonga, well known for his roles at **Sense8** and **WarpTV**, now a technology consultant to the Tonic Corporation. In full-pitch mode, he explains, "One problem with name registration in the past has been that the InterNIC has a rather antiquated legacy system, based on email. Using the forms on *www.tonic.to* , our customers get instant feedback on the availability of the name they want, purchase it, and it becomes operational the same day."

Names are available on a first-come first-served basis for a mere US $100 for the first two years registration, and US $50 per year thereafter. There's even a sales partnership program offering commissions for registering and promoting *.to* names for qualified ISPs and other third parties.

Considering that InterNIC is little more than a retirement fund for ex-Pentagon types and notorious for its lousy service, Tonic Corporation is a valuable culture-jamming enterprise. Others agree on more prosaic grounds. One satisfied customer of Tonic writes, "I registered three names today. Your system is excellent. I especially like being able to change the DNS info. I've been waiting six weeks for InterNIC to move one of my domains, and on inquiries all I get are auto responder messages, and no one answers the phone, and even the fax line is not answered. I guess they're too busy counting the money. I won't bore you with all the details, but suffice it to say that they're unbelievably incompetent or stupid or arrogant, etc. I really hate InterNIC and Network Solutions. I hope I never have to have anything to do with them again. And I'll be damned if they'll ever get another penny out of me. Maybe you should bid on the contract when it comes up next year."

So if you need a tonic, now you know where to go.

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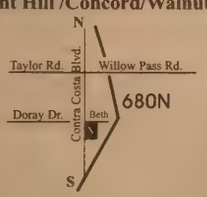

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Things Go Better With . . .

WHOOPS! A COMMERCIAL ALMOST CREPT INTO THE COLUMN, which would entirely spoil the culture-jamming theme. Oh, well, perhaps it can't be helped. **Dana Atchley** called after reading the Multimedia 101 road trip to Las Vegas column to let me (and you) know that he's just wrapping up work on a digital storytelling project for Coca-Cola's **A New World of Coca-Cola**, an "attraction" to open July 7 on the Las Vegas strip.

The front of the building looks like a giant Coke bottle—you can't miss it even in Las Vegas. It's hard to believe that such a cornball idea got through to completion, but apparently there's even a fountain of Coke!

Not that that has anything to do with Atchley, who concentrated on **The Storytelling Theater** with an eight-person crew for a year. The result is an interactive storytelling system, somewhat like his **Next Exit** show, where students from the Drama Department of the **University of Nevada, Las Vegas** tell stories about the folklore of Coke with visual aids that they summon up via a Mac with a touch-screen. There's a choice of twenty-four stories to choose from, with such tales as the man who went through World War II with a bottle of Coke as his good-luck charm (apparently it worked) and the Canadian in Calgary who turned an old Coke cooler into a trailer and now tows it behind his 1928 hot rod. Each show runs for 12 minutes in a nicely appointed theater—and, you know, this whole thing just convinces me that life is stranger than fiction and so why not tell stories about it!

At a much more grass-roots level but high in the mountains rather than in the desert, Atchley and his bride-to-be, **Denis Aungst**, also have the **3rd Annual Digital Storytelling Festival** coming up at Crested Butte, CO, from September 18–21. Prior to the festival is **The Digital Storytelling Boot Camp** (See that militaristic fixation again?) from September 15–17, a hands-on workshop based on a course that Atchley developed at **The American Film Institute**. The whole thing sounds like loads of fun, with a list of presenters that includes such names as Atchley himself (of course), **Joe Lambert** and **Nina Mullen** of the **SF Digital Media Center**, **Harry Marks**, **Scott Rosenberg** of **Salon 1999**, **Dave Winer** of his very own **DaveNet**, **Peter Bergman** of **Firesign Theater**, and **Abbe Don** of too many things to list. For more info, check the Web site at *http://www.dstory.com* or call Dana or Denise at (415)285-8955.

The Next Picture Show

FOR A LITTLE LOCAL ART IN THIS ISSUE'S CULTURE-JAMMING theme, check out the second installation at the South Park gallery, **Picture**. This one's called **Blow Out**, and the PR claims that it "will feature a flotilla of suspended kayaks being pursued by a grizzly bear through a churning sea of bobbing inner tubes." The point?

"The exhibition dramatizes the perception of urgency promoted by advertisers who want us to pursue outdoor activities with wild abandon between Memorial Day and Labor Day." The installation was created by **Peter Haberkorn** and may be experienced (with wild abandon, I hope) from July 18–September 6 at 524 Third St. For further info, call (415)543-4124. ■

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MULTIMEDIA 101

The Evolution Of OM

Ups, Downs, And Dealing With Change

For some corporations in the multimedia business, OM might stand for Other Media, or perhaps the more prosaic and technical Optical Media, but as Eric Kalabacos, director of OM Records' interactive division, explains, "The original founders of OM Records liked the name 'OM' as a mantra that represents a primordial sound of the universe."

While the six CD/CD-ROM releases already out probably don't contain any of the sounds actually heard at the beginnings of the universe, they are certainly within the general category of contemporary music that attempts to combine today's electronic techniques with a sense of rootedness in the metaphysical earth of the past, sometimes known as the music of the Archaic Revival.

The category is actually pretty flexible, really a collection of genres defined more by musical outlook than particular style; OM's releases run eclectically from the acid jazz of *Mushroom Jazz* through the solid soul of *Soul Motion* to the ethereality of *Spiritual High* and the mixed abstract and funky hip-hop beats of *Deep Concentration*, the latest release and dedicated to the sonic art of turntablists.

Besides the musical threads, which are pretty stretched as far as mainstream record-company marketing is concerned, the common denominator is that all come with an interactive multimedia addition to the music.

The interactive portion of OM's releases varies from the relatively simple approach of the earlier releases to the detailed work of *Mushroom Jazz* and the Digital Beat Box that accompanies *Deep Concentration*. It goes far beyond the generally lame liner-note approach of most major-label Enhanced CD (ECD) releases. Kalabacos declares that "The basic philosophy behind all of our media is to put the music in some type of context: Here are the people who are into this, this is what the art feels like, what it looks like inside one of these clubs, here's a little bit about how this music is made. Basically we want to build some sense of community and culture around the music."

THE PERSONAL PAST

Kalabacos himself came to OM after the first two releases, *The Groove Active Collection* and *Spiritual High*, and as the third, *Go Big*, was finishing up. His route there mirrors the development of computer media and its convergence with other media.

BY JONATHAN E

While studying music and Buddhism at the Naropa Institute in Boulder, CO, he took a class in translating Tibetan. One of his classmates turned in his homework "in perfectly typeset Tibetan." Intrigued, Kalabacos asked how he'd done that and was shown a Macintosh with a Tibetan font. He also learned that his classmate "was earning $20 per hour doing graphics with MacDraw while I got $5 per hour delivering pizzas. I got a Mac Plus."

He taught himself to do "basic desktop publishing, resumes and so on." After college, he moved to San Francisco in 1990 and became a trainer for Abacus, "a fairly infamous company in the Haight," although Kalabacos is quick to point out that he was not part of the commune associated with Abacus. He taught "a whole slew of applications" for about a year and a half and produced some multimedia CD-ROMs on how to program the Mac for Apple's Developers University. Kalabacos elucidates, "When Director 2.0 came out with Lingo, I learned to program with it. The same with Photoshop. I always got new programs, took them home and figured them out."

He continues, "In 1991, Photoshop was just out, and System 7 let you have more than 8MB of RAM and there were color 24-bit graphics cards and Quark and all that. I hooked up with some friends, we got some scanners and started Colorscape Communications. Initially we focused on graphics and prepress work. There were very few people doing color work." He shakes his head incredulously at the state of affairs only six years ago and the subsequent effects of Moore's Law.

Obviously not one to stand still for long, Kalabacos branched out into more multimedia and interactive work including a training program for Longs Drugs employees on how to use the checkout stand and operate the cash registers. "I made a huge program in Director 3. It's still used in all the Longs stores. They train 5,000 people a year using it. There are quizzes and a mockup of the register keyboard. That's where I really learned how to seriously program big projects in Director and to do a lot of all the production management, file management, all the craft/crap that goes into making new media. It was a real trial by fire for me."

Not knowing much about running a cash register before, he laughs, "But I do now. I have a fallback in case things don't work out in the multimedia industry!"

The partners of Colorscape Communications went their own ways in 1994, and Kalabacos moved to Denver to make presentations and videos using a Mac system with Premiere and Radius VideoVision for a workflow application. "I learned a lot there about software development with Ph.D. types," he says, "but after a year it became obvious that I couldn't really take Denver very well." Moving back to San Francisco, he became a freelance developer working out of his house on Web sites and CD-ROM games.

OM's Kalabacos declares that "The basic philosophy behind all of our media is to put the music in some type of context. We want to build some sense of community and culture around the music."

While he was gaining all this experience in the developing world of multimedia, Kalabacos explains that "On a separate track, I've also been very passionate about music. When I moved here, I got very into the club scene and the early '90s rave scene that was going on. I happened to get really interested in acid jazz music and there weren't really many clubs doing that in the city here so I decided to try and start one. I hooked up with Patty Ryan, who is now engaged to Chris Smith who founded OM, and we started this Monday night dance party called Mushroom Jazz. That would have been in '93."

His time in Denver meant that Kalabacos couldn't stay involved with the Mushroom Jazz club for long, but it was a popular San Francisco night out for about three years. Once he was back in town, it seems like it was only a matter of time before his path crossed with that of OM Records. And so it was.

"In the beginning of '96," Kalabacos relates, "I got a phone call from OM Records. They had actually heard about me from Nick Phillip, who had started work on his *Radical Beauty* project. Nick had tried to get me to work with him on that particular project. That didn't really work out, but he had told OM about me. They were in desperate need of a strong technical person because they had been outsourcing most of the programming at the time, and there wasn't someone who really had a lot of knowledge here directing the team.

"So they basically made me an offer to start here as technical director. It worked out great. Firstly, it's only half a block from my house, and, secondly, Chris had already hooked up with Patty and they were already at work on this idea of the *Mushroom Jazz* CD and CD-ROM package."

DOUBLE DISCS

The first three OM releases were single-disc packages, a variation on the then-hot and embryonic idea of ECDs. Track one contained the multimedia elements, while track two and higher held the audio. Clearly, having track one be unplayable on standard audio CD players was not going to work—the multimedia has to be "invisible." The multisession Blue Book standard has now achieved this invisibility for ECDs.

However, OM was not satisfied with either solution and moved to release its new material as double-disc packages, one disc being a standard Red Book, audio-only disc and the other being a CD-ROM. OM made the decision based partially on the lack of standards at the time, not wishing to have its discs unplayable on any machine. Another reason, says Kalabacos, was that "ECDs were taking a bit of a beating in the press, to say the least, and we felt that it was another way to distinguish what we were doing to some degree."

He continues, "Thirdly, we wanted the freedom to be able to put as much material on the CD-ROM portion as we could and we didn't want to be hampered by the lack of space."

All along OM had set the price for its releases in the standard audio-release range. Now, Kalabacos explains, "We decided that, since it

continued on page 228

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MULTIMEDIA 101 *continued from page 225*

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OM also got nimble about the formatting and taking advantage of lucky breaks. Both *Mushroom Jazz* and *Deep Concentration* are also available as good old-fashioned slabs of analog vinyl—double packs of course so that the grooves are nice and fat (perhaps I mean *phat* in this case) improving the sound quality and making it louder for use in what is one of OM's core constituences, the DJ or turntablist scene.

Beyond that, OM was lucky (or prescient) enough to have leased for *Mushroom Jazz* a track by Blue Boy, "Remember Me," that turned out to be a Top Ten hit across much of Europe. While not being the European licensee and profiting from the hit there, OM has remixed *Mushroom Jazz* to more prominently feature "Remember Me," and has also pressed the song up on 12" vinyl with four different versions to promote the CD/CD-ROM package.

Obviously, these particular techniques are not available to all producers of multimedia, but they do illustrate some interesting variations on the repackaging and repurposing that make multimedia really multiple media.

WHO'S IN THE AUDIENCE?

Pressing vinyl obviously extends the audience beyond those who have computers. There are some marketing and financial reasons for doing that but there are also simple and practical cultural reasons. Vinyl is a lot easier to scratch and mix with than CDs. There's a physicality to it that satisfies some deep need for direct connection that CDs appear incapable of answering.

However, the DJ market, vibrant and growing as it is, is still pretty small and not where OM needs to go to assure its future—besides, analog vinyl CD-ROMs are an oxymoron that even the wackiest industry visionary has yet to prophesy.

One big change in OM's direction is that it will soon be releasing entire albums by its own artists rather than licensing material from other labels and putting out compilations, as it it has mostly done so far.

However, as is no secret, the CD-ROM multimedia business is in shambles, particularly for independent companies. OM is not immune, and the simple fact of the matter is that producing multimedia costs plenty. Kalabacos claims that "There's a big crossover between people who are interested in electronic music, which is what our label is about, and people that are also into the Net and computers. We don't really view it as two distinct markets; we think that there's a lot of crossover."

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The question becomes whether that unified audience is large enough to support the costs of producing multimedia and releasing it at prices that are essentially the same as audio-only releases.

Already, OM has had to make some painful decisions. The multimedia portion of *Deep Concentration*, for example, while an impressive, even a magnificent, piece of work in its way (there'll be more about it in this column in the next issue of *MicroTimes*) appeals to computer users in a completely different way than the earlier releases. In some ways, if you had the earlier releases you might be disappointed by *Deep Concentration*. Although the music is excellent, perhaps stronger than any of OM's previous releases, the multimedia does not have the cultural content of, say, *Mushroom Jazz*—and there's a ton of content that would have been well placed in the title. Kalabacos admits that this was partially due to those twin bugbears of so much media creation, budget and deadline. He explains further, "With the Web developing further, we feel that we could move some of the more content-oriented material to the Web site and let people access it that way, which also allows it stay fresher and be updated."

Of course, Web sites are not cheap either, and any content that OM puts up is free to all (until microcash or whatever becomes a reality) and, for now, added overhead for OM. Behind the scenes, one senses that OM is wondering how to keep up its standards and keep releasing content-rich material.

"This does not mean that we are entirely backing away," Kalabacos continues, "that we won't do a content-oriented CD-ROM in the future on projects that we think it really makes sense to do it on." OM's next release, Nick Philip's *Radical Beauty*, for example, is a CD/CD-ROM combo with lots of content. Next month, Multimedia 101 will examine that title, take a closer look at *Deep Concentration*'s Digital Beat Box, and search for further clues about the future for OM Records.

THE SPEED OF TIME

As we go to press, we've just learned that Eric Kalabacos has left his position as an employee of OM Records. "It was a parting on good terms," Kalabacos says, "but I needed to become a contractor rather than an employee. I may continue to work on the Digital Beat Box and the Web site and I hope to participate in OM's future success." A little probing revealed that his decision was partly based on the budgets available for the interactive portions of OM's future releases. "It's not surprising that financing is an issue," Kalabacos continues, "and I could have remained in my position as an employee but I want to do more interactive work." Unfortunately, it seems that OM has run into the financial wall that blocks so much new media and has decided that for the sake of survival it is necessary to focus on a business that really exists, the music business. Kalabacos meanwhile intends to take a short vacation and then focus on his own interactive production company, Empty Space Productions. He may be reached at (415)777-0665 or via email at *ekjazz@netcom.com*. ■

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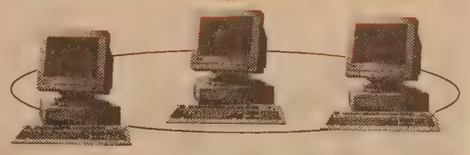

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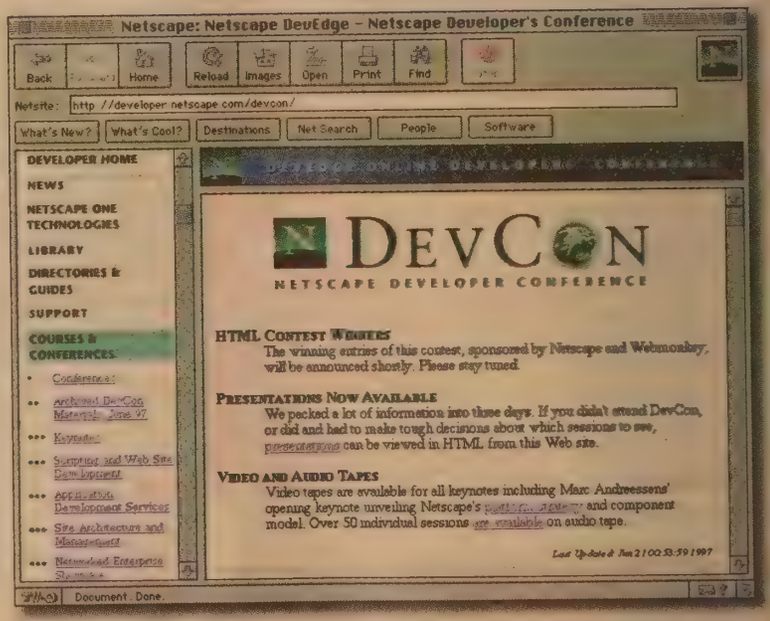
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VIDEO AND AUDIO TAPES
Video tapes are available for all keynotes including Marc Andreessens' opening keynote unveiling Netscape's and component model. Over 50 individual sessions are available on audio tape.
Document: Done.

In its quest to be online and to be profitable at the same time, Netscape has gone from browsers to groupware to Netcasting, and now down to the Webrock of online—the browser as a development platform.

They are taking one step backwards to connect to legacy systems and their client's assets; at the same time they're striding ahead to a component software architecture that goes well beyond drag-and-drop object-oriented software development.

OPEN NETWORK ENVIRONMENT

The Third Netscape Developer Conference, held in June at the San Jose Convention Center, revealed the increasing maturity and rapid expansion of the online development industry.

Netscape ushered in Netscape ONE (Open Network Environment), a new cross-platform authoring environment based on open Internet standards. Sun Microsystems' versatile JavaBeans are the platform-independent component tools for building Crossware. JavaBeans are going to be filtered throughout the Netscape platform, and will be supported in the company's entire client and server product line, including messaging, directory and database connectivity services.

"Crossware" is Netscape's term to describe on-demand applications that run across networks and operating systems and can be extended easily to external partners and customers. Additionally, Crossware can be distributed via Netscape Netcaster, which includes Marimba's Castanet software and support for Dynamic HTML, enabling "push" delivery of applications, content and messaging across the Internet.

Mike Homer, senior VP of marketing for Netscape, says: "Most large Fortune 100 companies, especially conglomerates, are built from mergers and acquisitions. So it's often the case that a company will have parts of the organization that grew through acquisition or merger and may have totally different systems and infrastructures."

continued on page 247

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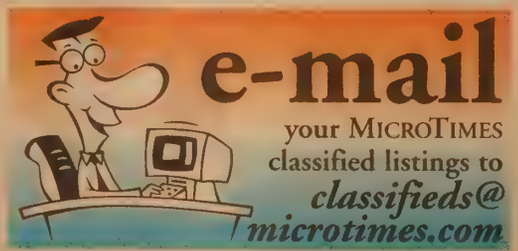

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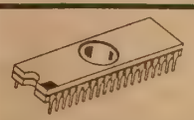

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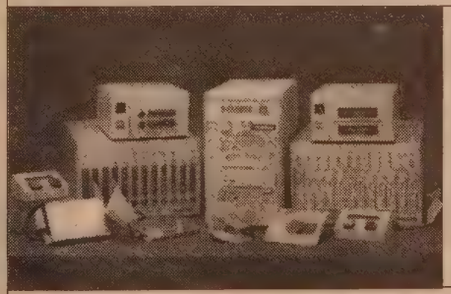

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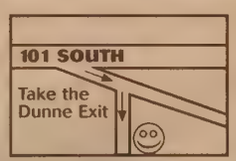

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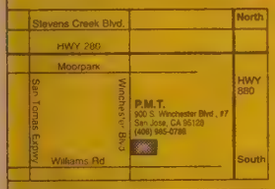

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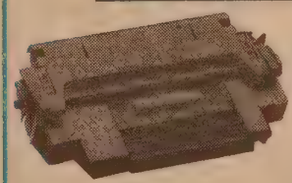

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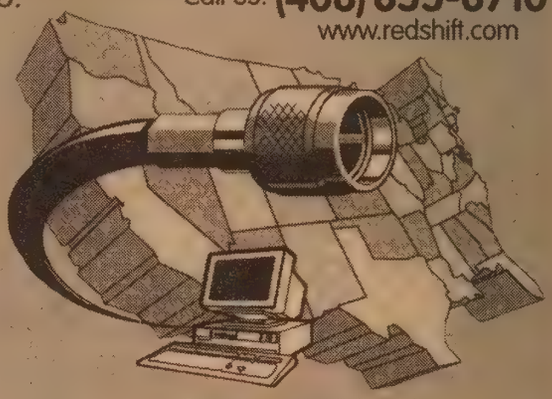

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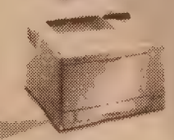

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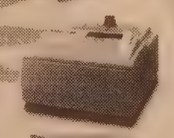

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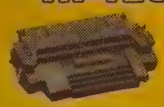

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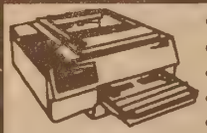

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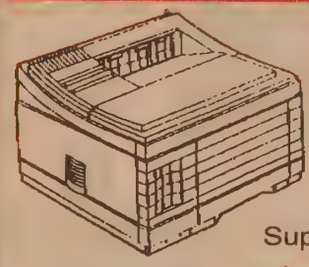

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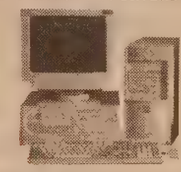

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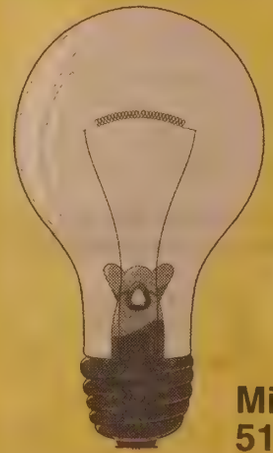

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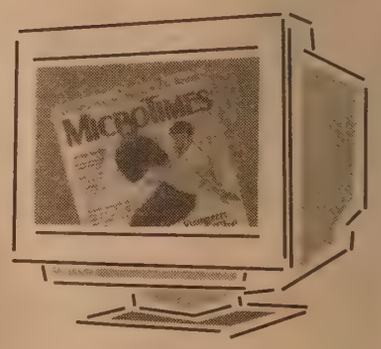

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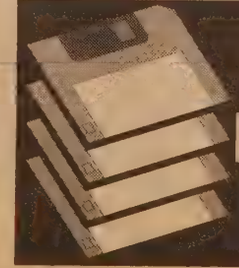
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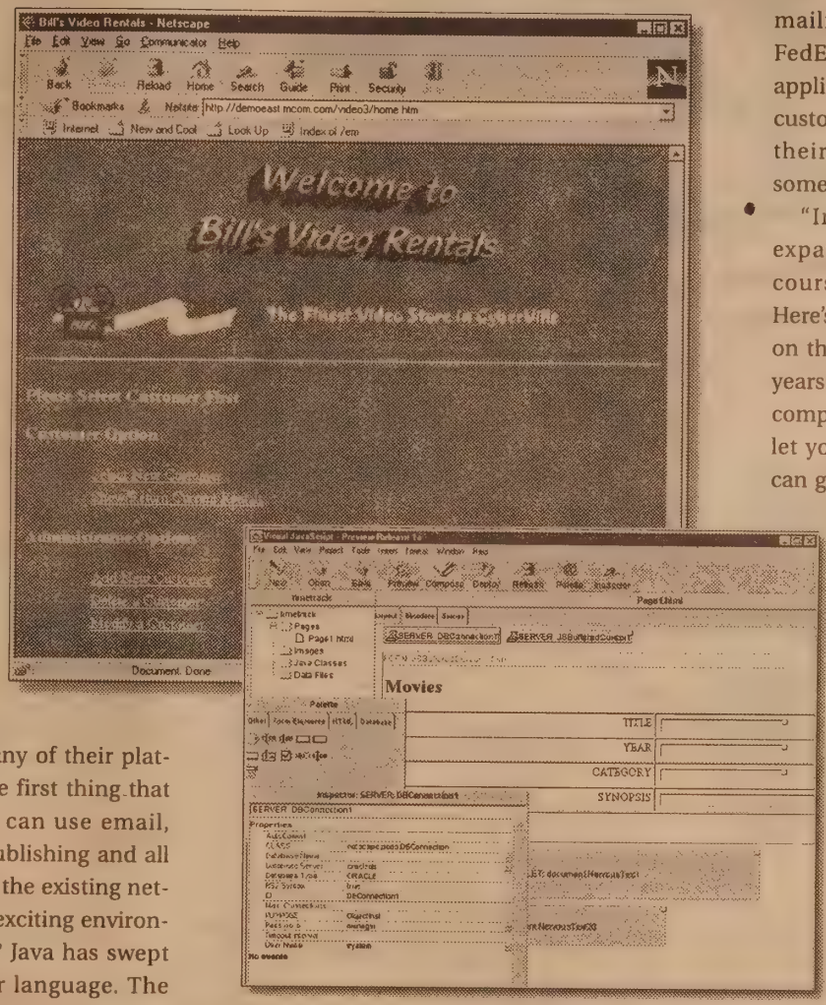
THE BEANS OF NETSCAPE *continued from page 230*

CROSSWARE

Netscape ONE is now focused on aiding developers to create Crossware fueled by Sun Microsystem's JavaBeans. JavaBean technology will allow developers to leapfrog long lines of code to snap together blocks and bars of pre-built software to build powerful Crossware applications.

As an example, Netscape demonstrated how easy it is to build a video rental store's interactive Web page transactional interface based on the store's extranet. The task took about 10% of the time that it would have taken to program it in C++ or Java.



"The fact that our software can be deployed across any of their platforms," explains Homer, "is the first thing that benefits them, because they can use email, browsing and simple HTML publishing and all those things are right on top of the existing network that they have. Is this an exciting environment to build applications in? Java has swept the industry, unlike any other language. The market opportunities are huge. You can now take almost any entertainment-based Web site and imagine the various types of applications you might wrap around it, such as the Internet Movie Database. Now you have an environment, which is also a platform, that is really great for delivering content of all sorts. That can include DVOD (Direct Video On Demand) once you have the bandwidth."

INTERNET/INTRANET/EXTRANET

"Today you have two kinds of online applications," Homer continues. "One is an application that's built out on the Net for public consumption. In many cases you buy from a company for its products and services. The other kind is the intranet application that is confined to consumption by the employees of a company. Just about every major organization out there has an intranet. Hewlett-Packard has 100,000 people on their intranet; GE has 100,000, US West 60,000, Fujitsu 80,000.

"The people on the public Web sites never get to work on those intranet applications. Our vision of the enterprise is that you can build an application that is used by the employees but is extended out to partners and customers just as easy as it is used by your employees, and then to various groups that communicate in the context of your business.

"A great example of that is the FedEx Web site. All the applications that you see there were in a different form accessible only behind the firewalls of FedEx. FedEx had the insight to open them up and put them on their Web site. What do the consumers see? They can check to see where their packages are, find rates and pickup schedules, and they can print out a mailing label. That saves time, and it saves FedEx time. It is the extension of an intranet application to the outside. We believe that every customer will extend their applications outside their firewall. Everybody does business for somebody that doesn't work for them.

"In the next thirty days we are going to expand a whole series of interactive online courses and online training for developers. Here's what our goal is: All these people are now on the Net, and that's very different from three years ago. We can give you the tool on the Net, components, signing up for certification, we can let you hang your shingle in our directory, we can give millions of people access to your shingle. Whether its an individual or a small company, the Net has changed the business opportunities for someone who wants to get into programming and sell their services."

USEFUL BOOKS

Designing Interactive Web Sites (Hayden Books, 457 pp + CD-ROM, $45), with contributions by several authors, may seem like an oxymoron. Today it's hard to encounter a site that doesn't include some kind of activity or interactivity. But this book will help you to focus, define and execute this increasingly important aspect of Web publishing.

The authors clarify different modes, aspects and degrees of interactivity, and illustrate them with examples and case studies. They win my confidence when they reveal that there is indeed such a thing as too much interactivity on a site. They cover the tools and processes that you will need to make hits happen, and the Mac/Windows CD-ROM includes Java applets.

Web Publisher's Design Guide for Macintosh, 2nd Edition by Mary Jo Fahey (Coriolis, 498 pp + CD-ROM, $39.99), is a richly illustrated portfolio featuring some of the most talented digital artists on the Web. Fahey organizes the book along topics such as navigation, NetObjects

"Crossware" is Netscape's term to describe on-demand applications that run across networks and operating systems and can be extended easily to external partners and customers.

THE BEANS OF NETSCAPE *continued...*

Fusion, HTML, photography, video, sound, GIFs and Shockwave and VRML World Building. Because she illustrates these areas with the analyzed work of real sites by real designers, it provides reality checks along with the high standard benchmarks. The CD-ROM provides design tools, artwork samples, multimedia files and other resources.

Just when you need it, *HTML: The Definitive Guide*, by Chuck Musciano & Bill Kennedy (O'Reilly, 531 pp, $32.95), can be there to help you shag the tags and lob the links. Designed to be a comprehensive, authoritative reference, it covers HTML 3.2 and all the features supported by the major Web browsers. The authors present the book in such a way that it can be used by the beginner to learn HTML for a wide range of applications, and also by more experienced Websters who need quick answers about specific elements. A pull-out reference card can help for instant hits. ■

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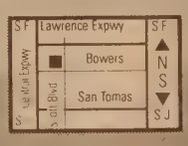

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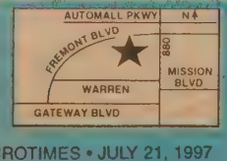

Resources

Calendar Of Events

Conferences, Shows, Special Events

July

July 21–22 Presenting Data and Information. Palo Alto. Contact: 1-800-822-2454.

July 22–23 Intranets—Design and Implementation. San Francisco. American Research Group. Contact: (919)461-8600, or URL: *http://www.arg.com* .

July 26 Robert Austin Computer Show. San Francisco. Robert Austin Corp. Contact: 1-800-243-7041 or URL: *http://www.robertaustin.com* .

July 29–31 Data Warehouse World. New York, NY. DCI. Contact: (508)470-3880, *ConfReg@dciexpo.com* , or URL: *http://www.DCIexpo.com* .

July 31 Animation Training Open House. San Francisco. Mesmer Animation Labs. Contact: 1-800-237-7311.

July 31–August 2 Editorial Issues on the Web. New York, NY. Contact: (212)675-4380, ext. 285, *michaelt@mediainfo.com* , or URL: *http://www.mediainfo.com* .

August

August 2 Robert Austin Computer Show. Oakland. Robert Austin Corp. Contact: 1-800-243-7041 or URL: *http://www.robertaustin.com* .

August 3 Livermore Amateur Radio Klub (LARK) Swap Meet. Las Positas College, Livermore. LARK. Contact: (510)783-2803, or (510)447-3857 (eves.).

August 13–15 Windows NT Intranet Solutions. San Francisco. SOFTBANK Forums. Contact: 1-800-800-8920, or URL: *http://www.winits.com* .

August 14 Animation Training Open House. San Francisco. Mesmer Animation Labs. Contact: 1-800-237-7311.

August 14–15 RSA Laboratories 1997 Seminar Series. Oakland. Contact: (415)595-7703, *rsa-labs@rsa.com* , or URL: *http://www.rsa.com/rsalabs/* .

August 16 Robert Austin Computer Show. San Francisco. Robert Austin Corp. Contact: 1-800-243-7041 or URL: *http://www.robertaustin.com* .

AUGUST 13–15

Windows NT Intranet Solutions

SAN FRANCISCO

Windows NT Intranet Solutions is the premier event for IS/IT professionals, technical/business managers, network professionals, developers, systems integrators, VARS, Microsoft Solution Providers, consultants, and all others who want to explore the tools, technologies, and techniques for building enterprise solutions for the NT platform. Windows NT Intranet Solutions is 100% focused on Windows NT and offers education on the products, services and technologies that are driving enterprise-wide applications running on Windows NT. This event has a singular focus on real-world solutions for the Windows NT environment and promises to address the critical issues surrounding designing, deploying and managing NT-based networks and applications. For more information, contact SOFTBANK Forums at 1-800-488-2883 or URL: *http://www.sbforums.com* .

AUGUST 20–23

ISPCON '97

SAN FRANCISCO

ISPCON '97 is the only trade show event designed specifically for Internet Service Providers, and promises to offer over 100 educational sessions and seminars covering marketing and scalability issues, peering, new business opportunities, as well as the technical and operational aspects of operating an Internet service business. Show sponsors Cisco Systems, Rockwell, Compaq, Digital Equipment, U.S. Robotics, and Bay Networks, along with many other vendors of remote-access equipment, will demonstrate the very latest technologies designed specifically for Internet Service Providers. Reed Hundt, chairman of the Federal Communications Commission, has been invited to keynote the event. For more information on ISPCON '97, contact 1-800-933-6038, or URL: *http://www.ispcon.com* .

Classes, Seminars, Workshops

July

July 16 New-to-Computer User Course (certified) for Speech Recognition. San Mateo. Zephyr Business Services. Contact: (415)655-2405, or URL: *http://members.aol.com/zephyrbus/web/* .

July 17 Front Page 97 Overview. Sunnyvale. T-Zone Inc. Contact: (408)733-9920, or URL: *http://www.tzone.com* .

July 17–August 21 Java Programming. Fremont. UC Berkeley Extension. Contact: (510)642-4111, or URL: *http://www.unex.berkeley.edu:4243* .

July 18 Front Page 97 Web Design. Sunnyvale. T-Zone Inc. Contact: (408)733-9920, or URL: *http://www.tzone.com* .

July 19 Master Your Macintosh Computer In A Day. Berkeley. BMUG. Contact: (510)549-2684 or *bmugseminars@bmug.org* .

July 19 Doing Business on the Net. Walnut Creek. Internet University of America, Inc. Contact: (510)933-0500, or URL: *http://www.phdnet.com* .

July 19 Web Design. Walnut Creek. Internet University of America, Inc. Contact: (510)933-0500, or URL: *http://www.phdnet.com* .

July 21 Free Microsoft Exchange Presentation. San Jose. Contact: (408)281-5818.

July 21 Introduction to Word for Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

July 21 Windows 95 Overview (In Japanese). Sunnyvale. T-Zone Inc. Contact: (408)733-9920, or URL: *http://www.tzone.com* .

July 21–22 AutoCAD MAP. San Rafael. A/E/C Technologies, Inc. Contact: (415)459-1050 or URL: *http://www.aectech.com* .

July 21–23 Internetworking with MS TCP/IP. Oakland. UC Berkeley Extension. Contact: (510)642-4111, or URL: *http://www.unex.berkeley.edu:4243* .

July 21–24 AutoCAD R13 3-D Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838.

Solutions

Put Your Hands on the Computer Webolution at Exciting Expo!

Of all the pages you can read in this magazine, this is one that can help you learn the most as well as save lots of money on computer software and hardware. It can also put you in touch with the Internet.

Robert Austin Computer Shows have long been a Bay Area favorite and some of the best shows to go to. Starting in June, they are starting a new horizon as the shows start to move into the area of the Internet.

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or visit our Web Page on the Internet
http://www.robertaustin.com

Resources

Calendar Of Events *continued...*

July 21–25 Supporting Windows NT Server 4.0—Enterprise Tech. Fremont. Unitek. Contact: 1-800-454-7212, *training@unitek.com* , or URL: *http://www.unitek.com* .

July 21–25 Accelerated Training for Windows NT 4.0. Fremont. Unitek. Contact: 1-800-454-7212, *training@unitek.com* , or URL: *http://www.unitek.com* .

July 21–25 Intro to SoftImage 3D/Extreme. San Francisco. Mesmer Animation Labs. Contact: 1-800-237-7311.

July 22 Intermediate Excel for Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

July 22 Word 97 Introduction (In Japanese). Sunnyvale. T-Zone Inc. Contact: (408)733-9920, or URL: *http://www.tzone.com* .

July 22–31 NT 4.0 Server: How to Load, Configure, Option and Troubleshoot. San Francisco. SFSU Extended Education. Contact: (415)904-7740.

July 23 Introduction to Excel for Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

July 23 Excel 97 Introduction (In Japanese). Sunnyvale. T-Zone Inc. Contact: (408)733-9920, or URL: *http://www.tzone.com* .

July 23 High-Tech Engineering Marketing (Free). San Jose. International Technology University. Contact: (408)727-1000.

July 23–25 AutoCAD Basics. San Rafael. A/E/C Technologies, Inc. Contact: (415)459-1050 or URL: *http://www.aectech.com* .

July 23–August 6 FrameMaker: Long Document Preparation. Cupertino. UCSC Extension in Cupertino. Contact: (408)342-0160.

July 24 Introduction to PowerPoint for Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

July 24 Word 97 Intermediate (In Japanese). Sunnyvale. T-Zone Inc. Contact: (408)733-9920, or URL: *http://www.tzone.com* .

July 24–25 Networking Technologies and Protocols. Oakland. UC Berkeley Extension. Contact: (510)642-4111, or URL: *http://www.unex.berkeley.edu:4243* .

July 24–August 14 Photoshop for the Web. San Francisco. Computer Arts Institute. Contact: (415)546-5242 , *cai@sirius.com* , or URL: *http://www.sirius.com/~cai* .

July 24–26 Mechanical Desktop. San Rafael. A/E/C Technologies, Inc. Contact: (415)459-1050 or URL: *http://www.aectech.com* .

July 25 Introduction to WordPerfect for Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

July 25 Excel 97 Intermediate (In Japanese). Sunnyvale. T-Zone Inc. Contact: (408)733-9920, or URL: *http://www.tzone.com* .

July 25–August 22 CGI Programming in Perl. San Francisco. SFSU Extended Education. Contact: (415)904-7740.

July 26 Intermediate Photoshop. Berkeley. Kala Institute. Contact: (510)549-2977, or URL: *http://www.kala.org* .

July 26 Intro to Windows 95. San Mateo. Zephyr Business Services. Contact: (415)655-2405, or URL: *http://members.aol.com/zephyrbus/web/* .

July 26 The Virtual Corporation. San Francisco. SFSU Extended Education. Contact: (415)904-7740.

July 28 Director III: Shockwave. Berkeley. Kala Institute. Contact: (510)549-2977, or URL: *http://www.kala.org* .

July 28 Free Microsoft Exchange Presentation. San Jose. Contact: (408)281-5818.

July 28 Intro to Microsoft Word. San Mateo. Zephyr Business Services. Contact: (415)655-2405, or URL: *http://members.aol.com/zephyrbus/web/* .

July 28–30 Auto Architect. San Rafael. A/E/C Technologies, Inc. Contact: (415)459-1050 or URL: *http://www.aectech.com* .

July 28–August 1 Accelerated Training for Windows NT 4.0. San Jose. Unitek. Contact: 1-800-454-7212, *training@unitek.com* , or URL: *http://www.unitek.com* .

July 28–August 1 Intro to Alias/Wavefront PowerAnimator. San Francisco. Mesmer Animation Labs. Contact: 1-800-237-7311.

July 28–August 3 Internetworking with TCP/IP on Windows NT 4.0. Fremont. Unitek. Contact: 1-800-454-7212, *training@unitek.com* , or URL: *http://www.unitek.com* .

July 28–August 3 Supporting Windows NT Server 4.0—Enterprise Tech. Fremont. Unitek. Contact: 1-800-454-7212, *training@unitek.com* , or URL: *http://www.unitek.com* .

July 28–August 1 Administering Microsoft Windows NT 4.0. San Jose. Unitek. Contact: 1-800-454-7212, *training@unitek.com* , or URL: *http://www.unitek.com* .

July 29 Intermediate Word for Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

July 30 Intermediate WordPerfect for Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

July 30 Wireless and Broad-Band Communications (Free). San Jose. International Technology University. Contact: (408)727-1000.

July 30–August 1 Creating and Configuring a Web Server Using Microsoft Tools. San Jose. Unitek. Contact: 1-800-454-7212, *training@unitek.com* , or URL: *http://www.unitek.com* .

July 31–August 1 Automated Software Testing. San Francisco. UC Berkeley Extension. Contact: (510)642-4111, or URL: *http://www.unex.berkeley.edu:4243* .

July 31–August 1 AutoCAD 14 Update. San Rafael. A/E/C Technologies, Inc. Contact: (415)459-1050 or URL: *http://www.aectech.com* .

August

August 1 End-To-End Application Development. San Jose. Wave Technologies. Contact: 1-800-860-1973 or URL: *http://www.wavetech.com* .

August 1 Windows 95 Overview. Sunnyvale. T-Zone Inc. Contact: (408)733-9920, or URL: *http://www.tzone.com* .

August 1 Introduction to Excel for Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

August 2 Intro To Macintosh Class. Berkeley. Kala Institute. Contact: (510)549-2977, or URL: *http://www.kala.org* .

August 2 Navigating the Internet: Driver's Ed for the Information Superhighway. San Francisco. SFSU Extended Education. Contact: (415)904-7740.

August 2 Doing Business on the Net. Walnut Creek. Internet University of America, Inc. Contact: (510)933-0500, or URL: *http://www.phdnet.com* .

August 2 Web Design. Walnut Creek. Internet University of America, Inc. Contact: (510)933-0500, or URL: *http://www.phdnet.com* .

August 2–16 FreeHand I. San Francisco. SFSU Extended Education. Contact: (415)904-7740.

August 2–23 Designing Electronic Communities. San Francisco. SFSU Extended Education. Contact: (415)904-7740.

August 2–3 Using the Internet Part 5: Creating Home Pages for the World Wide Web. San Francisco. UC Berkeley Extension. Contact: (510)642-4111, or URL: *http://www.unex.berkeley.edu:4243* .

August 3–10 HTML Web Authoring II. San Francisco. SFSU Extended Education. Contact: (415)904-7740.

August 4 Free Microsoft Exchange Presentation. San Jose. Contact: (408)281-5818.

August 4 Office 97 Overview. Sunnyvale. T-Zone Inc. Contact: (408)733-9920, or URL: *http://www.tzone.com* .

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	P-166MMX	$1899	$2499
	P-200MMX	$2159	$2759

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S3 Virge 3D MPEG 4MB EDO	$48

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3D Xpression Plus PC2TV PCI 2MB SDRAM	$95
3D Xpression Plus PC2TV PCI 4MB SDRAM	$119
3D Pro Turbo PC2TV 4MB SGRAM	$128
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Stealth 64 PCI 2MB Video VRAM	$118
Stealth 64 PCI 4MB Video VRAM	$148
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Mystique 3D 4MB SGRAM (Retail Box)	$128
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AL34550SW Atlas II 4.5GB Ultra Wide	$798
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15.7X SCSI XM-5901B-S $199

MITSUMI
8X EIDE $58
16X EIDE $88

SANYO
20X EIDE $109

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SureStore C6020I 6X Read 2X Write $499

PHILIPS
CDD 2000/12 4X Read, 2X Write Int $589
CDD 2010/20 4X Read, 2X Write Ext $699
CDD 2600/12 6X Read, 2X Write Int $699
CDD 2600/20 6X Read, 2X Write Ext $799

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CDR-400 6X Read 4X Write Ext. $829

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Adaptec CD-Creator (Win 95/NT/Win 3.11) $169
Adaptec CD-Creator for Mac $175
Blank CD-ROM 650MB (Brand Name) $7.99

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YAMAHA
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M15 Speaker $78
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"Tucson" Pentium® w/512K (ATX) $168
"Marl" Pentium® w/256K (ATX) $98
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Intel Pentium® 150MHz/166MHz/200MHz $109/129/149
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Intel Pentium® II 233/266MHz MMX $699/799

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w/150/166MHz Intel CPU $257/297
Intel "Endeavor" w/Sound M/B Only $209
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w/150/166MHz Intel CPU $367/417
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w/100/120/133MHz Intel CPU $227/238/268
w/150/166/200MHz Intel CPU $248/268/288
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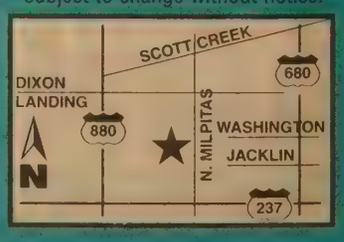

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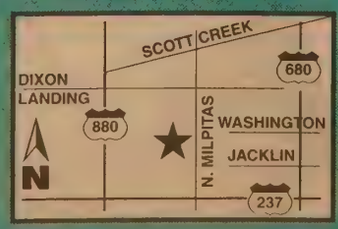

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Resources

Calendar Of Events *continued from page 252*

August 4 Introduction to Word for Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

August 4–10 Supporting Windows NT Server 4.0—Enterprise Tech. San Jose. Unitek. Contact: 1-800-454-7212, *training@unitek.com* , or URL: *http://www.unitek.com* .

August 4–15 Technology for the Changing Classroom. San Francisco. SFSU Extended Education. Contact: (415)904-7740.

August 4–29 Speech Recognition: Beginning Through Advanced Classes. San Mateo. Zephyr Business Services. Contact: (415)655-2405, or URL: *http://members.aol.com/zephyrbus/web/* .

August 4–5 3D Studio Max III. San Francisco. SFSU Extended Education. Contact: (415)904-7740.

August 4–8 Core Technologies of Microsoft Exchange Server 5.0. Fremont. Unitek. Contact: 1-800-454-7212, *training@unitek.com* , or URL: *http://www.unitek.com* .

August 4–8 Creating and Configuring a Web Server Using Microsoft Tools. San Jose. Unitek. Contact: 1-800-454-7212, *training@unitek.com* , or URL: *http://www.unitek.com* .

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August 4–8 Administering Microsoft Windows NT 4.0. Fremont. Unitek. Contact: 1-800-454-7212, *training@unitek.com* , or URL: *http://www.unitek.com* .

August 5 Word 97 Introduction. Sunnyvale. T-Zone Inc. Contact: (408)733-9920, or URL: *http://www.tzone.com* .

August 5 Introduction to WordPerfect for Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

August 5–7 High-Speed Networks. San Francisco. SFSU Extended Education. Contact: (415)904-7740.

August 6 Excel 97 Introduction. Sunnyvale. T-Zone Inc. Contact: (408)733-9920, or URL: *http://www.tzone.com* .

August 6 Intermediate Excel for Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

August 6–8 AutoCAD Basics. San Rafael. A/E/C Technologies, Inc. Contact: (415)459-1050 or URL: *http://www.aectech.com* .

August 6–8 Administering Microsoft Windows NT 4.0. San Jose. Unitek. Contact: 1-800-454-7212, *training@unitek.com* , or URL: *http://www.unitek.com* .

August 7 Word 97 Intermediate. Sunnyvale. T-Zone Inc. Contact: (408)733-9920, or URL: *http://www.tzone.com* .

August 7–8 PCB Design for EMC Compliance Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838.

August 7–8 Networking Essentials. Fremont. UC Berkeley Extension. Contact: (510)642-4111, or URL: *http://www.unex.berkeley.edu:4243* .

August 7–8 3D Studio Max for Architects. San Francisco. SFSU Extended Education. Contact: (415)904-7740.

August 8 Excel 97 Intermediate. Sunnyvale. T-Zone Inc. Contact: (408)733-9920, or URL: *http://www.tzone.com* .

August 8 Introduction to PowerPoint for Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

August 9 Introduction to Photoshop. Berkeley. Kala Institute. Contact: (510)549-2977, or URL: *http://www.kala.org* .

August 11 Introduction to HTML. Berkeley. Kala Institute. Contact: (510)549-2977, or URL: *http://www.kala.org* .

August 11 Free Microsoft Exchange Presentation. San Jose. Contact: (408)281-5818.

August 11 PowerPoint 97 Overview. Sunnyvale. T-Zone Inc. Contact: (408)733-9920, or URL: *http://www.tzone.com* .

August 11 Intermediate Word for Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

August 11–12 Implementing Novell TCP/IP. Oakland. UC Berkeley Extension. Contact: (510)642-4111, or URL: *http://www.unex.berkeley.edu:4243* .

August 11–13 Mechanical Desktop. San Rafael. A/E/C Technologies, Inc. Contact: (415)459-1050 or URL: *http://www.aectech.com* .

August 11–13 Creating and Configuring a Web Server Using Microsoft Tools. San Jose. Unitek. Contact: 1-800-454-7212, *training@unitek.com* , or URL: *http://www.unitek.com* .

August 11–15 Internetworking with TCP/IP on Windows NT 4.0. San Jose. Unitek. Contact: 1-800-454-7212, *training@unitek.com* , or URL: *http://www.unitek.com* .

August 11–15 Internetworking with TCP/IP on Windows NT 4.0. Fremont. Unitek. Contact: 1-800-454-7212, *training@unitek.com* , or URL: *http://www.unitek.com* .

August 11–15 Accelerated Training for Windows NT 4.0. San Jose. Unitek. Contact: 1-800-454-7212, *training@unitek.com* , or URL: *http://www.unitek.com* .

August 11–15 Intermediate SoftImage 3D/Extreme. San Francisco. Mesmer Animation Labs. Contact: 1-800-237-7311.

August 11–17 Supporting Windows NT 4.0–Core Technologies. San Jose. Unitek. Contact: 1-800-454-7212, *training@unitek.com* , or URL: *http://www.unitek.com* .

August 11–17 Accelerated Training for Windows NT 4.0. San Jose. Unitek. Contact: 1-800-454-7212, *training@unitek.com* , or URL: *http://www.unitek.com* .

August 12 Netscape 3.1 Overview. Sunnyvale. T-Zone Inc. Contact: (408)733-9920, or URL: *http://www.tzone.com* .

August 12 Intro to Windows 95. San Mateo. Zephyr Business Services. Contact: (415)655-2405, or URL: *http://members.aol.com/zephyrbus/web/* .

August 13 Explorer 3.0 Overview. Sunnyvale. T-Zone Inc. Contact: (408)733-9920, or URL: *http://www.tzone.com* .

August 13 Intermediate WordPerfect for Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

August 13 Web Design. Walnut Creek. Internet University of America, Inc. Contact: (510)933-0500, or URL: *http://www.phdnet.com* .

August 13–15 Using JavaScript to Build Dynamic Web Pages. San Francisco. Bay Area Video Coalition (BAVC). Contact: (415)861-3282, *videonet@aol.com* , or URL: *http://www.bavc.org* .

August 14 Front Page 97 Overview. Sunnyvale. T-Zone Inc. Contact: (408)733-9920, or URL: *http://www.tzone.com* .

August 14 Introduction to Excel for Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

August 14–15 AutoCAD 3D. San Rafael. A/E/C Technologies, Inc. Contact: (415)459-1050 or URL: *http://www.aectech.com* .

August 14–16 Printed Circuits Components, Fabrication, and Assembly Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838.

August 15 Front Page 97 Web Design. Sunnyvale. T-Zone Inc. Contact: (408)733-9920, or URL: *http://www.tzone.com* .

August 15–22 Automating Microsoft Access with Macros. San Francisco. SFSU Extended Education. Contact: (415)904-7740. ■

Online Guide

Web Page Listings *continued from page 200*

Starbucks Morning Coffee Club *http://home.earthlink.net/~bacdoc/coffee.htm* Caffeine-powered humor with tongue firmly in cheek. [Exp. #168.]

Strychnine Blotter Party *http://www.grin.net/~mjm/index.htm* San Francisco-based psychedelic rock band. [Exp. #169.]

Thrills Unlimited *http://www.ThrillsUnlimited.com* The dangerous world of motorcycle daredevil Ken Mackow [Exp. #168.]

Tramline Tours *http://www.tramline.com* Tramline offers free automated online tours on any topic where there are Web resources, including a complete introduction to Internet skills and technology. [Exp. #168.]

Transporter 2 *http://www.seas.ucla.edu/~poirier/transporter2/bookmark.htm* Star Trek LCARS-based listing of 1000+ useful sites on the Net. [Exp. #167.]

Tropicana International *http://www.cubaweb.cu/tropicana/index.html* Promoting Cuban music and culture. [Exp. #168.]

Tunelink's Ultimate Classic Rock Music Web Site *http://glx.net/~tunelink* Musical journey thru the classic rock era (CD's and tapes available)! [Exp. #169.]

Twinkles Hakim Home Page *http://www.loop.com/~twinksh* The true story of the bunny film industry by "the Greatest Bunny Star of Them All." [Exp. #169.]

Video Game And Anime Sound Site *http://www.geocities.com/RainForest/4961/index.html* Get video game and anime sound clips, midis and pictures. Ranma, Ronin Warriors, Dracula X. [Exp. #168.]

Virtual Conventions *http://www.hostcity.com/virtual* Human vs. human network multiplayer gaming. Stop playing against the computer. Shoot your buddy instead! [Exp. #168.]

The Weather Channel *http://www.weather.com* Redesigned to help consumers navigate through the comprehensive weather information and lifestyle content available on the site. [Exp. #167.]

Zonkworld *http://www.zonkworld.com* Football and baseball cards, auctions, chat, etc. [Exp. #168.]

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To list your Web home page for FREE, send us the name of your page/site, the URL (address), and a fifteen-word description. Also, please include a contact name and phone number for our reference only. Listings will run for three issues unless renewed. We reserve the right to select listings on a space-available basis and to edit those listings as needed. Send us your listings to: *michael.robin@microtimes.com* ; Web Listings, 3470 Buskirk Ave., Pleasant Hill, CA 94523; or fax to (510)934-0883.

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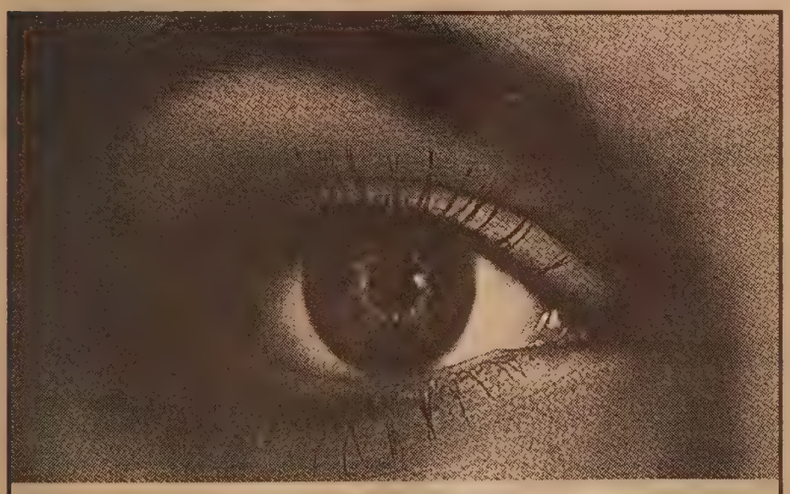

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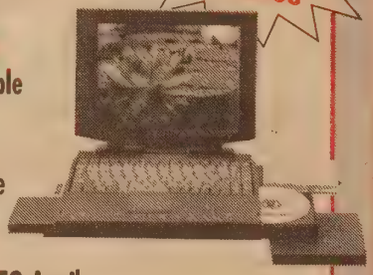

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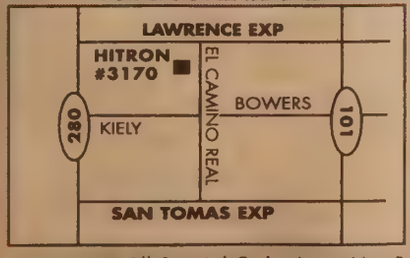

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Nero's Adult BBS. Multizone (408)933-2706, 942-5061, 225-1401; (415)965-1246; (510)317-1902, 745-9859, 803-5004, 831-1908, 682-3137; Telnet: wg.pathcomm.com . Chat, download. [Exp. #168.]

408

Escape To Other Worlds BBS. (408)956-1745. 28,800. Four lines. Online matchmaking, chat, games. [Exp. #167.]

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The Wave BBS. (408) 477-1186, 353-4354. 23 hrs., 28,800. Adult chat, games, WorldGroup, files, free demo accounts, monthly membership. [Exp. #168.]

415

Bay Windows BBS. (415) 871-0359. 24 hrs. DOS, Windows, games, utilities, online doors, echo mail available. User-friendly GT Power v19 RIP compatible. URL: *http://www.sirius.com/~jlo* . Sysop: Judy. [Exp. #167.]

Flying High BBS. (415) 467-2303. 24 hrs., 14,400–28,800. Games, L.O.R.D., Call back verification required for new users. Free. [Exp. #167.]

GameWorld BBS. (415) 493-0607. Lots of games to download, free, 15 doors, friendly sysop. [Exp. #168.]

Golden Gate Computer Society BBS. (415)457-2516. 24 hrs., 33,600. Four lines, 2GB/files, 30 min./day free. ILink, Cal.Link, Usenet, Internet email: $24/year. [Exp. #167.]

Kill-O-Byte BBS. (415) 344-1563. 24 hrs., 2400–33,600. Online files, CD-ROMs, games, film scripts, Amiga, IBM, OS/2, Windows; FREE! [Exp. #169.]

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Aaron Construction Company BBS. (510) 521-0281. 8-N-1, 24 hrs., 2400–28,800. Construction- and Second Amendment-oriented. Free. [Exp. #167.]

Dr Jack's Thing. (510) 689-4022. 42,000 adult files. Huge Midi-Wav collection. Special offer for the ladies. [Exp. #168.]

K 3 & Company. (510) 370-3719. 2400–56,600. Job openings from Bay Area companies. Resume tips and templates. [Exp. #167.]

KanonTech BBS. (510) 235-6839. Martial Arts, programming, online games, 2 lines, writers/artists conferences. MOD/Midi music section. Free. Sysop: Kanon Kubose. [Exp. #169.]

MaDDog Sports BBS. (510)895-8089, 483-0203. 24 hrs., 2400– 28,800. CD-ROMs, online games, FidoNet, free Internet email, Raiders, 49ers, and other team's echoes from the Internet. Lots of sports, new files daily. Troy Earp. [Exp. #167.]

Mike's Mess BBS. (510) 753-5869, or URL: *http://home.earthlink.net/~mikam* . 8-N-1, 24 hrs., 33,600. Internet email, user groups, onliners, files. Free access. [Exp. #168.]

Red Dwarf BBS. (510) 261-3966. 24 hrs., Wildnet, MSI SupportNet, online games, files, messages, doors. SciFi/RPG-based, but we offer more. All welcome. Sysop: Earl Williams. [Exp. #168.]

Windows OnLine. (510) 736-8343, Telnet: WOLLY.WOLNET.COM , URL: *http://www.wolnet.com* . 8-N-1, 24 hrs., 33,600. Largest Windows BBS. Free limited trial. [Exp. #167.]

USER GROUPS

AMIGA

AWEST–Amiga Users In SF. Meetings: 2nd Wed., 6:30 pm, Excelsior Branch Public Library, 4400 Mission St. (near Ocean), San Francisco. Call: (415) 474-1164; BBS (415)441-1120. [Exp.#172.]

ATARI

San Leandro Computer Club. Meetings: 1st Tues., 8:00 pm, San Leandro Main Library, Estudillo Room, 300 Estudillo Ave. Call: Robbie, (510)797-5636. [Exp.#170.]

COMMODORE

CHUG (Commodore Hayward User Group). Meetings: 2nd Sat., 2:00 pm, Palma Ceia Park Clubhouse, Hayward. Commodore 64 and 128 owners are welcome to attend. Call: (510)793-7868. [Exp.#171.]

CWEST–Commodore 64/128 Users In SF. 2nd Wed., 6:30 pm, Excelsior Branch Public Library, 4400 Mission (near Ocean), San Francisco. Call: (415)474-1164; BBS (415)441-1120. [Exp.#172.]

Diablo Valley Commodore Users Group. Meetings: 3rd Thurs., 7:00 pm, Clayton Valley Presbyterian Church, 1748 Kirker Pass Rd., Clayton. Call: (510)689-3224. [Exp.#168.]

IBM AND COMPATIBLES

AT&T Computer Users Group. Meetings: 1st Wed., 7:00 pm, 50 Fremont St., 40th Floor (near 1st and Mission), San Francisco. Demonstrations, technical support, informal discussion. Call: (415)885-6631. [Exp.#170.]

Business Operations SIG of the Software Forum. Meetings: 1st Tues., 7:00 pm, Center for Software Development, 111 W. St. John St., Ste. 200, San Jose. Contact: Brian Tien, *brian@leansoft.com* . [Exp.#171.]

Diablo Valley User Group—DVPC. Meetings: 1st Thurs., 7:00 pm, Bank of America, Bldg. B, 2001 Clayton Rd. at Galindo, Walnut Creek. SIGs include Internet, Windows, Beginner's, Visual Basic, education/entertainment, and more. Call: Craig Peterson, (510)671-7025, *bod@dvpc.org* , or URL: *http://www.dvpc.org* . [Exp.#172.]

East Bay FOG. Meetings: 2nd Wed., 7:30 pm, Episcopal Church of St. John-in-Montclair, 1707 Gouldin Rd., Oakland. All microcomputers, MS-DOS, CP/M. Call: (510) 653-2627, 8 am–10 pm. [Exp.#172.]

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US Mail should go to: MicroTimes User Group, 3470 Buskirk Ave., Pleasant Hill, CA 94523. **Faxes** are welcome at (510)934-0883. **Email** can be sent to: *cassidy.allen@microtimes.com* or MCI:MICROTIMES.

USER GROUPS continued...

Golden Gate Computer Society. Meetings: 4th Mon., 7:00 pm, San Rafael Community Center, 618 B St., San Rafael. Free intro to computers class at 6:00 pm. Call: (415)454-5556, or URL: *http://www.ggcs.org* . [Exp.#170.]

PC Clubhouse. Meetings: 1st Fri., 7:30 pm, swap at 7:00 pm, Meiklejohn Hall, Room 2002 (inside 1009), CSU Hayward. Share knowledge and PD/shareware, mentor assistance, SIGs. Call: (510)276-6450 or 538-2449. [Exp.#168.]

PC Users Group Of The Redwoods. Meetings: 2nd Thurs., 6:30 pm, Santa Rosa Veteran's Memorial Building, East Dining Room, Maple Ave., Santa Rosa. Call: (707)527-USER; or *info@sonic.net* , or URL: *http://pcugr.pcugr.org* . [Exp.#169.]

Peninsula Computer Club. Meetings: 2nd Thurs., 7:30 pm, 222 Laurel St., San Carlos. DOS and CP/M libraries. Call: (415)593-9981, BBS (415)571-9259, or *larryw3553@aol.com* . [Exp.#170.]

San Francisco Business Computers. Meetings: 4th Tues., 5:30 pm, 110 Pacific, #153, San Francisco. For people who use computers in their work. Visitors $10. Call: (415)788-5338 or *sfbc@juno.com* . [Exp.#169.]

San Francisco PC Users Group. Meetings: 3rd Tues., 7:30 pm, PUC Auditorium, 505 Van Ness Ave./McAllister. Presentations, Q&A sessions. Call: Jerry Stern, (415)572-1100 or 777-1332 for recorded events message. URL: *http://www.sfpcug.org/~group* . [Exp.#171.]

Stanford Palo Alto Users Group For PC (SPAUG). Meetings: final Wed., 7:30 pm, Conference Center at EPRI, 3412 Hillview, Palo Alto. All welcome. Call: Bev Altman, (415)368-9530 or 329-8252. [Exp.#172.]

INTERNATIONAL

International Macintosh Users Group (IMUG). Meetings: 3rd Thurs., 7:00 pm, Apple Computer, R&D Campus, 1 Infinite Loop, Cupertino. A forum for multilingual/multiscript computing. $2; free for IMUG members. Call: Roger Sherman, (415) 859-5146. [Exp.#171.]

International Software SIG Of the Software Forum. Meetings: 3rd Mon., 7:00 pm, Stanford World Internet Center, Stanford Barn, Palo Alto. $10. Contact: Charlie Pfefferkorn, *charliep@crystal-media.com* . [Exp.#171.]

INTERNET

Internet SIG. Meetings: 3rd Thurs., 7:00 pm, PG&E Facility, 123 Mission St., San Francisco. Contact: Patrick Lynch, (510)482-5329, or *patl@a.crl.com* . [Exp.#170.]

LEGAL

SF Bar Assoc. WordPerfect User Group. Meetings: 3rd Wed. odd-numbered months, noon, 465 California St., 11th floor, Boardroom. Chair: Al Buchignani. Call: (415) 421-5650. [Exp.#170.]

MACINTOSH

BMUG User Group. Meetings: every Thurs., 6:30 pm, BMUG, 2055 Center St., Berkeley. Q&A, vendor demo and raffle. Free. Contact: (510)549-2684. [Exp.#168.]

BMUG User Group (San Francisco). Meetings: last Mon., 6:30 pm, McBean Theater in the Explorator-ium. Q&A, vendor demo and raffle. Free. Contact: (510)549-2684. [Exp.#168.]

BMUG User Group (South Bay). Meetings: 3rd Mon., 7:00 pm, Apple Town Hall, Cupertino. Q&A, vendor demo and raffle. Free. Contact: (510)549-2684. [Exp.#168.]

Macintosh Users Group of the Napa Valley. Meetings: 2nd Thurs., 6:30 pm, Bel Aire Plaza on Trancas Ave., Napa. Contact: Jim Gillespie, (707)252-1665, *gillespi@napanet.net/* . [Exp.#168.]

Macs Of Marin. Meetings: last Wed., 8:00 pm, Corte Madera Rec. Center, 498 Tamalpais Dr., Marin. Q&A 8:00, meeting 8:30, members free, non-members $5. Call: Richard, (415) 485-5596. [Exp.#169.]

TriValley Macintosh User Group (TMUG). Meetings: 3rd Tues., 7:30 pm, Sonoma School, 543 Sonoma Ave., Livermore. Q&A, DOM, vendor presentations. Book, CD, Mac-Academy training libraries. Free to pubiic. Call: Jerry, (510)830-8838. [Exp.#172.]

MISCELLANEOUS

Bay Area Interleaf Users Group (Bayleaf). Meetings: 2nd Weds., odd-numbered months, Location varies; see Web site for details. Contact: Marilyn Salyer, (415)802-2170, *msalyer@interleaf.com* , or URL: *http://www.clearlink.com/bayleaf* . [Exp.#171.]

FileMaker Pro Database Interest Group (DIG.FM). Meetings: 3rd Thurs., 7:00 pm, Claris Corp., 5201 Patrick Henry Dr., Santa Clara. Presenta-tions, demos, and tips by and for passionate users of FileMaker Pro for both Mac and Windows. Not affiliated with Claris. Free. Contact: *info@digfm.org* , or URL: *http://www.digfm.org* . [Exp.#172.]

FoxPro 3rd Party Tools SIG. Meetings: 1st Thurs., 7:00 pm, PG&E Building, 77 Beale St., San Francisco. Contact: Barbara Paltiel, (415)345-0152. [Exp.#170.]

Marketing SIG Of The Software Forum. Meetings: 2nd Mon., 7:00 pm, Stanford World Internet Center, The Stanford Barn, 700 Welch, Ste. 200, Palo Alto. Contact: Stan Trumbull, *strum@bayarea.net* . [Exp.#171.]

SF Bay Area Powerbuilder Users Group. Meetings: 3rd Thurs., 1:00 pm. See Web site *(http://www.sfpbug.com)* for meeting location. All welcome. [Exp.#169.]

MOBILE

Stanford Newton User Group. Meetings: 2nd and 4th Tues., 7:00 pm, Printer's Inc. Bookstore Cafe, 310 California Ave., Palo Alto. Contact: Flash Sheridan, (415)462-9203, *snug@pobox.com* , or URL: *http://pobox.com/~snug/* . [Exp.#169.]

MULTIMEDIA

Multimedia SIG Of The Software Forum. Meetings: 4th Thurs., 7:00 pm, Cubberly Community Ctr., 4000 Middlefield Rd., Rm. H-1, Palo Alto. $10. Contact: Mike Schmit, *mschmit@compcore.com* . [Exp.#171.]

PARADOX

Paradox SIG of Diablo Valley PC Users Group. Meetings: 2nd Thurs., 7:30 pm, Beginners and advanced, bring your PDOX problems. Free. Contact: Bill Mero, (510)685-2484, or *kmero@ix.netcom.com* . [Exp.#170.]

PROGRAMMING LANGUAGES

Visual Basic Silicon Valley SIG of the Software Forum. Meetings: 2nd Thurs., 6:00 pm, Cubberly Community Ctr., 4000 Middlefield Rd., Rm. H-1, Palo Alto. $10. Call: Allan Colby, *storage@nerve-net.com* . [Exp.#171.]

VRML SIG of the Software Forum. Meetings: 3rd Tues., 7:00 pm, Cubberly Community Center, 4000 Middlefield Rd., Rm. H-1, Palo Alto. Contact: Katherine Bretz, *kbretz@fsc.fujitsu.com* . [Exp.#171.]

TEXAS INSTRUMENTS

TI-99/4A. Meetings: 2nd Sat., Oakland. Need soft-/hardware? Call: Fred, (510)530-8335. [Exp.#169.]

WINDOWS

Bay Area Windows NT User Group. Meetings: 1st Sat., 1:00 pm, MentorNet, 745 Portola Dr., San Francisco. This professional association is for NT systems administrators and developers. Contact: Edwin Rutsch, (510)528-9895, or *edwin@wyp.net* , or URL: *http://www.bantug.org* . [Exp.#169.]

Windows NT Engineering Association of Silicon Valley (NTEA). Meetings: Second Tues., 6:00 pm, Santa Clara County Office of Education building, 1290 Ridder Park Dr., San Jose. Idea exchange, new technology, job opportunities. Meetings will focus on design, set-up, and troubleshooting servers, system administration, and software development issues. No fee for first-time participants. Contact: (408) 437-8803. [Exp.#172.]

Windows SIG Of The Software Forum. Meetings: 1st Wed., 6:30 pm, Cubberly Community Ctr., 4000 Middlefield Rd., Rm. H-1, Palo Alto. Contact: Fran Finnegan, *fran@fomci.com* . [Exp.#171.]

ASSOCIATIONS

Association of Database Developers (ADD-SF). URL: *http://www.well.com/user/add/cal.htm* . [Exp.#170.]

Association For Women In Computing. Meetings: 1st Wed., 6:00 pm, standing room only, Crocker Galleria, 50 Post St., San Francisco. $10 members, $15 guests. Call: (415)979-8450. [Exp.#171.]

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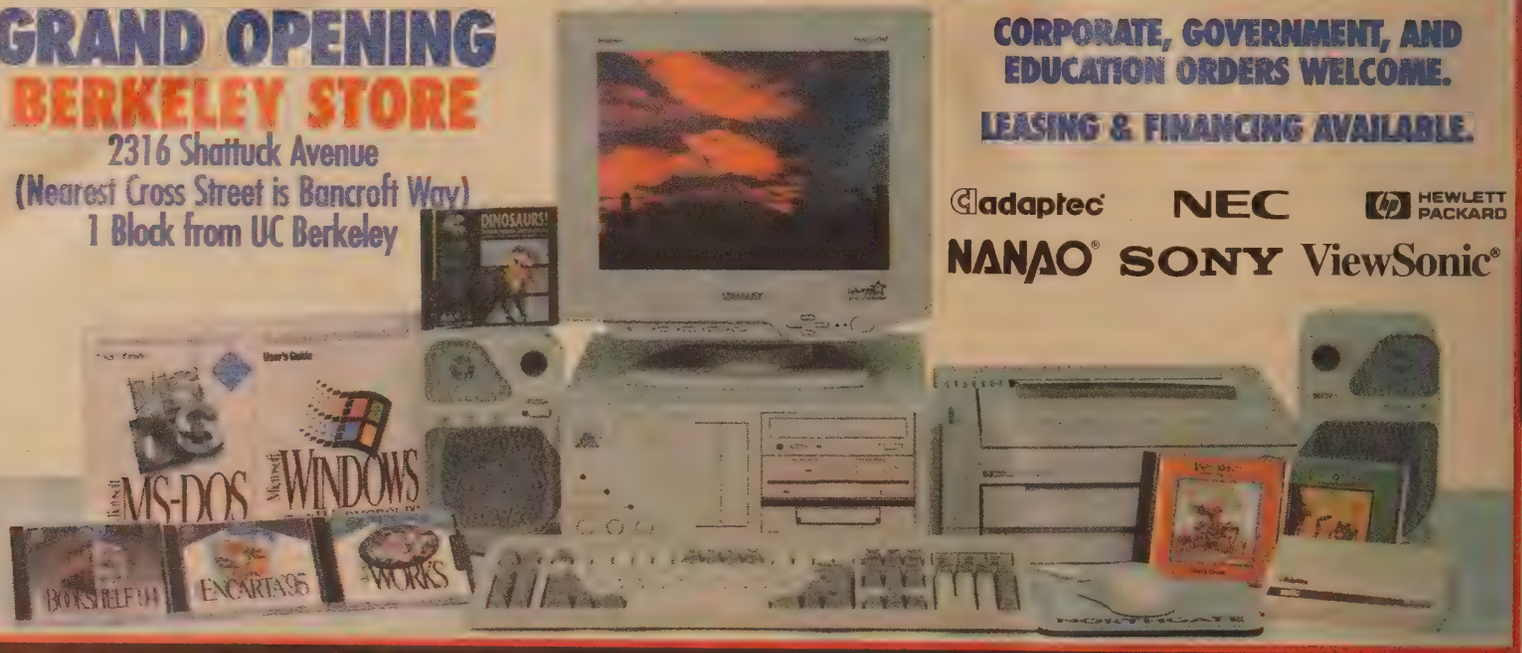

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- Mid Tower Case with Power Supply
- Keytronics Keyboard for Windows 95
- Free Mouse with Pad
- Free Microsoft Windows 95
- **Free CD Deluxe Pack**
- Monitor Sold Separately (see page 3)

Internet Ready!

MMX-P233/256K (Super Micro).....$1168
MMX-P200/256K (Super Micro).....1048
MMX-P166/256K (Super Micro).....938
MMX-P233/512K (Intel Triton TX).....1118
MMX-P200/512K (Intel Triton TX).....1008
MMX-P166/512K (Intel Triton TX).....898
AMD K6-200/512K (Intel Triton TX).....968
AMD K6-166/512K (Intel Triton TX).....898
P5-200/256K (Intel Triton VX).....908
P5-166/256K (Intel Triton VX).....828
P5-150/256K (Intel Triton VX).....818
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AMD K5-P166/256K (Intel Triton VX).....788
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- Microsoft Office Professional.....178
- Windows NT 4.0 WorkStation.....144

Why do customers keep buying from HI-TECH USA? Simply because we deliver the best value.

HI-TECH USA SUPER SALE

*BASIC SYSTEM: MOTHERBOARD & CPU, 8MB RAM, IDE WITH I/O, 1.44MB FDD, CASE WITH POWER SUPPLY, AND 101-KEY KEYBOARD.

	MOTHER-BOARD	MOTHER-BOARD WITH CPU	• BASIC SYSTEM W/8MB RAM	• BASIC SYSTEM W/16MB RAM	• BASIC SYSTEM W/32MB RAM	• BASIC SYSTEM W/64MB RAM	*BASIC SYS W/8MB RAM +1.0GB HDD + 1MB SVGA CARD & FREE MS DOS { 2.0GB HDD ADD $40 }	*BASIC SYS W/16MB RAM +1.2GB HDD + 1MB SVGA CARD & FREE MS DOS { 2.5GB HDD ADD $48 }	*BASIC SYS W/32MB RAM +2.0GB HDD + 1MB SVGA CARD & FREE MS DOS { 4.3GB HDD ADD $50 }	*BASIC SYS W/64MB RAM +4.3GB HDD + 1MB SVGA CARD & FREE MS DOS { 6.4GB HDD ADD $130 }
			SEE PAGES 3 & 4 OF OUR AD FOR ALL OF OUR UPGRADE PRICES							
PENTIUM II-266 (INTEL PORTLAND M/B) ATX	$258	$998	N/A	N/A	$1288	$1398	N/A	N/A	$1508	$1618
PENTIUM II-233 (INTEL PORTLAND M/B) ATX	258	838	N/A	N/A	1128	1238	N/A	N/A	1348	1458
PENTIUM II-266 (SUPER MICRO M/B)	258	998	N/A	N/A	1288	1398	N/A	N/A	1508	1618
PENTIUM II-266 (ASUS M/B)	258	998	N/A	N/A	1288	1398	N/A	N/A	1508	1618
DUAL PP-200C (Intel Providence M/B) w/ 1 CPU	498	958	N/A	N/A	1258	1408	N/A	N/A	1518	1628
DUAL PP-200C (SUPER MICRO M/B) w/ 1 CPU	308	758	$908	$938	998	1108	$1108	$1148	1218	1328
PP-200C (SUPER MICRO M/B)	238	698	848	878	938	1048	1048	1088	1158	1268
PP-180C (SUPER MICRO M/B)	238	578	728	758	818	928	928	968	1038	1148
PP-200C (INTEL VENUS M/B) ATX	128	578	748	778	838	948	948	988	1058	1168
P5-200C (INTEL MARL M/B) ATX (Tucson: +$40)	98	338	508	538	598	708	708	748	818	928
P5-166C (INTEL MARL M/B) ATX (Tucson: +$40)	98	228	398	428	488	598	598	638	708	818
P5-150C (INTEL MARL M/B) ATX (Tucson: +$40)	98	218	388	418	478	588	588	628	698	808
P5-133C (INTEL MARL M/B) ATX (Tucson: +$40)	98	208	378	408	468	578	578	618	688	798
MMX-P233/512K (SUPER MICRO M/B)	148	548	688	718	778	888	888	928	998	1108
MMX-P200/512K (SUPER MICRO M/B)	148	458	598	628	688	798	798	838	908	1018
MMX-P166/512K (SUPER MICRO M/B)	148	348	488	518	578	688	688	728	798	908
P5-200/512K (ASUS VX97 M/B)	94	328	468	498	558	668	668	708	778	888
P5-166/512K (ASUS VX97 M/B)	94	228	368	398	458	568	568	608	678	788
P5-150/512K (ASUS VX97 M/B)	94	218	358	388	448	558	558	598	668	778
P5-133/512K (ASUS VX97 M/B)	94	208	348	378	438	548	548	588	658	768
P5-120/512K (ASUS VX97 M/B)	94	188	328	358	418	528	528	568	638	748
MMX-P233/512K (INTEL TRITON TX)	96	508	638	668	728	838	838	878	948	1058
MMX-P200/512K (INTEL TRITON TX)	96	418	548	578	638	748	748	788	858	968
MMX-P166/512K (INTEL TRITON TX)	96	308	438	468	528	638	638	678	748	858
AMD K6-200/512K (INTEL TRITON TX)	96	348	478	508	568	678	678	718	788	898
AMD K6-166/512K (INTEL TRITON TX)	96	298	428	458	518	628	628	668	738	848
P5-200C (INTEL TRITON VX)	64	298	428	458	518	628	628	668	738	848
P5-166C (INTEL TRITON VX)	64	198	328	358	418	528	528	568	638	748
P5-150C (INTEL TRITON VX)	64	188	318	348	408	518	518	558	628	738
P5-133C (INTEL TRITON VX)	64	178	308	338	398	508	508	548	618	728
P5-120C (INTEL TRITON VX)	64	158	288	318	378	488	488	528	598	708
6X86-P200+/512K (INTEL TRITON TX)	96	198	328	358	418	528	528	568	638	748
6X86-P166+ (INTEL TRITON VX)	64	138	268	298	358	468	468	508	578	688
AMD K5-133C (INTEL TRITON VX)	64	138	268	298	358	468	468	508	578	688
AMD K5-75C (INTEL TRITON VX)	64	98	228	258	318	428	428	468	538	648
5X86-133C VLB-PCI	54	98	228	258	318	428	428	468	538	648

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8X SCSI CD ROM
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- TEAC 1.44MB 3.5" Floppy Drive
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- Enhanced Case w/Power Supply
- Free Mouse and Microsoft Windows 95
- Monitor Sold Separately (please see next page)

Internet Ready!

MMX-P233/256K (Super Micro) $988
MMX-P200/256K (Super Micro) 868
MMX-P166/256K (Super Micro) 758
MMX-P233/512K (Intel Triton TX) 948
MMX-P200/512K (Intel Triton TX) 828
MMX-P166/512K (Intel Triton TX) 718
P5-200/256K (Intel Triton VX) 728
P5-166/256K (Intel Triton VX) 648
P5-150/256K (Intel Triton VX) 638
P5-133/256K (Intel Triton VX) 628
6X86-P200+/512K (Intel Triton TX) .. 638
6X86-P166+/256K (Intel Triton VX) .. 588
AMD K5-P166/256K (Intel Triton VX) . 618
AMD K5-P133/256K (Intel Triton VX) . 598
AMD K5-P75/256K (Intel Triton VX) . 558
5X86-133/256K PCI-VLB 548

See Next Page for All of Our Upgrade Prices

HI-TECH SUPER SYSTEMS
(BUSINESS LEASE AVAILABLE)

- 16MB EDO RAM (32MB/64MB: Add $60/$180)
- 2.0GB EIDE (4.3GB: Add $50)
- Diamond Stealth w/2MB
- 56.6 Int. Fax Modem w/Voice (Internet Ready)
- TEAC 1.44MB 3.5" Floppy Drive
- Mitsumi Keyboard for Windows 95
- Medium Tower Case w/Power Supply
- Free Microsoft Windows 95 and Mouse
- Monitor Sold Separately (please see next page)

intel inside

Pentium II-266 (Intel Portland) ATX $1598
Pentium II-233 (Intel Portland) ATX 1448
Pentium II-266 (Asus or Super Micro) .. 1588
Pentium II-233 (Asus or Super Micro) .. 1438
MMX-P233/256K (Super Micro) 1118
MMX-P200/256K (Super Micro) 1008
MMX-P166/256K (Super Micro) 898
P5-200/256K (Super Micro) 928
P5-166/256K (Super Micro) 848
P5-150/256K (Super Micro) 838
MMX-P233/512K (Intel Triton TX) ... 1078
MMX-P200/512K (Intel Triton TX) 968
MMX-P166/512K (Intel Triton TX) 858
P5-200/512K (Intel Triton TX) 888
P5-166/512K (Intel Triton TX) 808
P5-150/512K (Intel Triton TX) 798

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(BUSINESS LEASE AVAILABLE)

- 32MB EDO RAM (64MB: Add $120)
- 4.3GB EIDE Hard Drive (6.4GB: Add $130)
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- US Robotics 56.6 Fax Modem (Internet Ready)
- TEAC 1.44MB 3.5" Floppy Drive
- Keytronics Keyboard for Windows 95
- Medium Tower Case or w/Power Supply
- Free Microsoft Windows 95 and Mouse
- Monitor Sold Separately (please see next page)

intel inside

Pentium II-266 (Intel Portland) ATX $1848
Pentium II-233 (Intel Portland) ATX 1678
Pentium II-266 (Asus or Super Micro) . 1838
Pentium II-233 (Asus or Super Micro) . 1668
Dual PP-200 (Super Micro) w/1CPU 1568
Dual PP-180 (Super Micro) w/1CPU 1448
PP-200 (Super Micro) 1498
PP-180 (Super Micro) 1388
PP-200 (Intel Venus) ATX 1438
PP-180 (Intel Venus) ATX 1318
MMX-P233/256K (Super Micro) 1338
MMX-P200/256K (Super Micro) 1228
MMX-P166/256K (Super Micro) 1118
P5-200/256K (Intel Mari) ATX 1148
P5-166/256K (Intel Mari) ATX 1068
P5-150/256K (Intel Mari) ATX 1058

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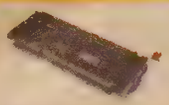
230W / 250W / 300W Power Supply ..... $20 / 24 / 32
Mini Tower Case w/200W Power Supply 23
Desktop AT Case w/200W Power Supply 33
Medium Tower Case w/230W Power Supply 35
Full Tower Case w/250W Power Supply 50
ATX Case w/Power Supply (Tower / AT) ..... 65 / 86

CONTROLLERS



IDE 2FD/2HD with 2S/1P/1G $10
VLB EIDE I/O with 16550 15

adaptec

1520 / 1542 CP (SCSI) ..... $67 / 158
2842 VLB (SCSI) 98
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DATA TECHNOLOGY

DTC 2280E ISA with 16550 UART Chip $19

PROMISE TECHNOLOGY, INC.

Promise DC-2300 Plus VLB IDE Fast I/O $41
Promise DC-4030 VLB IDE Cache Controller 58
Promise DC-4030+ VLB EIDE 106
Promise DC-5030 PCI IDE 0-16MB Cache 88

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Quantum Maxtor Seagate WESTERN DIGITAL

IDE 1.0GB / 1.2GB / 1.6GB ..... $134 / 142 / 159
IDE 2.0GB / 2.5GB ..... 164 / 184
IDE 4.3GB / 6.4GB ..... 214 / 346
SCSI 1.0GB / 1.2GB / 2.0GB ..... 188 / 204 / 228
SCSI 4.0GB / 9.0GB ..... 688 / 1198
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FLOPPY DRIVES
Mitsumi / Teac 1.44 Floppy Drive ..... $19 / 21

MOUSE

3-Button Mouse Microsoft Compatible $5

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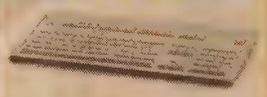
Microsoft Mouse PS2 (w/System) 21

KEYBOARDS



104-Key Keyboard for Windows 95 ..... $11

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4MB (4x3) (30 Pin) 17
4MB (1x32) (72-Pin) 17
8MB (2x32) (72-Pin) 32
16MB (4x32) 72-Pin) 58
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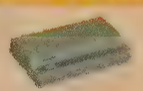
MODEMS & FAXES



Fax Modem 14,400 Internal / External ..... $23 / 28
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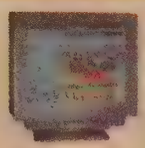

14" Mono / VGA Mono ..... $78 / 88
14" SGA 1024*768 .28 NI 144
15" SVGA 1024*768 .28 196
17" SVGA 1280*1024 .28 388

CTX

14" Super VGA 1024*768 .28 NI $187
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IIYama (IDEK)

MF-8515 15" 1280*1024 .28 ..... $334
MF-8617E 17" 1600*1200 .26 568
MF-8221E 21" 1600*1200 .30 1278

Impression

14" 1024*768 .28 NI $153
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17" 1280*1024 .28 NI 418

MAG INNOVISION

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DJ702 17" .26 1280*1024 518
DX700T 17" .25 Trinitron OSD Win 95 594

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TX-D75 20" .25 / FX-E7 21" .28 ..... 1604 / 1598

NEC

XV 15+ / M500 ..... $348 / 366
M700 / XV 17+ / P750 ..... 728 / 628 / 834
E1100 / P1150 21" .28 ..... 1368 / 1538

NOKIA

449XA 15" / 447L 17" $378/ 586
447XAV 17" / 447K 17" ..... 934 / 1338
445XI 21" 1688

SONY

100SX 15" $328
100SF 15" 368
200SX 17" 1280*1024 .25 65 Hz 616
200SF 17" 1280*1024 .25 75 Hz 708
300SFT 20" 1600*1024 .31 1388
20SEZT 20" .25 1748

ViewSonic®

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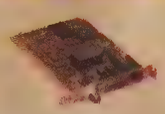
17EA 17" 1280*1024 .28 w/Speakers 518
17GS 17" 1280*1024 .28 Green 527
17GA 17" 1280*1024 .27 w/Speakers 578
17PS 17" 1600*1280 .25 Green 636
GT770 17" 1280*1024 .25 614
PT770 17" 1600*1280 .25 648
PT775 17" 1600*1280 .25 728
G800 20" 1600*1280 .28 968
G810 21" 1600*1280 .25 1228
PT 813 21" 1600*1280 .28 1418
P815 21" 1800*1440 .25 1458
VP140 2298

* Monitor Viewable size may be smaller than advertised size

NETWORKS



16 BIT Ethernet Card ISA (Combo) $14
32 BIT PCI Ethernet Card (Combo) 18
32 BIT PCI 10/100 TX 54
PCMCIA Ethernet Card (Combo) 64

3Com

3C509 ELINK III TP $46
3C509 ELINK III Combo 68
3C590 PCI Combo 69
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Hubs and Repeaters

5-Port Ethernet Hub $39
8-Port Ethernet Hub 47
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EtherExpress Pro 10 / 100 TX PCI $54

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Adara Scan 016 Image Star I $208
Visioneer PK-33001-W PPVX 3.5 188

SOFTWARE

Microsoft Windows 95 Full Copy CD Version (w/system) $88
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Microsoft DOS 6.x (with System) 38
Microsoft Office Professional OEM CD Version (w/System) 178
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5 Clients (with/System) 448
10 Clients (with/System) 608
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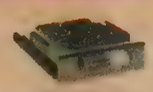
TAPE BACKUPS



Teac 800MB w/Tape $50

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SVGA ISA w/1MB 25
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ProTurbo w/TV 4MB SGRAM 128
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P5-166/256K (Triton VX)	208
P5-200/256K (Triton VX)	308
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Pentium Pro PP-200 (VENUS) ATX	578
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Pentium II-266 (PORTLAND) ATX	998
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Pentium Pro PP-180	578
Pentium Pro PP-200	698
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Mitsumi 8X 8-Speed IDE	62
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Panasonic 8X 8-Speed SCSI	84
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INPUT/OUTPUT
PCMCIA: Two Type II or One Type III, Windows 95 keyboard, Built-in Glide Pad, One IrDA Compliance Port

AUDIO
Built-in Stereo Speakers on LCD Panel, 16-Bit Stereo Sound Module, Stereo Line-in, Microphone-in and Line-out.

SOFTWARE
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Business Lease $72/Month

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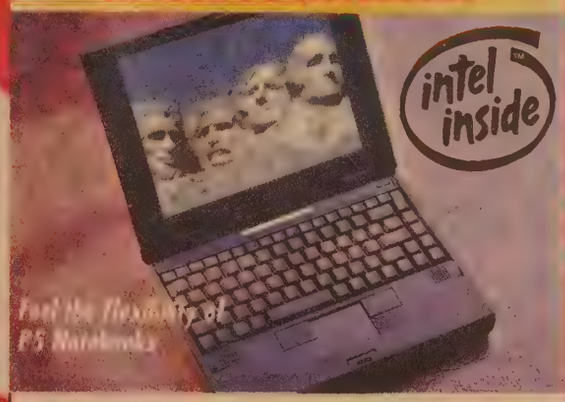
11.3" SVGA TFT, 16MB RAM, 2.0GB Hard Disk Drive, 10X CD-ROM
Business Lease $79/Month

HI-TECH P5 Notebooks



- 8MB RAM (16MB: +$70)
- 1.3GB Hard Drive
- 1.44 Floppy Drive
- 2MB Display Memory
- Built-In Pointing Device
- Carrying Case
- 32-Bit PCI Bus
- Built-in Sound Card and Speaker
- NIMH Battery
- 1 Type III or 2 Type II PCMCIA Slots
- FREE Microsoft Windows 95
- CD-ROM / LI-ION Battery Option

HI-TECH P5 NOTEBOOKS	Dual Scan Color (11.3")	Active Matrix Color (12.1")
P5-120	$1588	$2188
P5-133	$1618	$2218
P5-166	$1638	$2238

EVEREX CEDAR MMX

DRIVES
Removable HDD, 3.5" FDD, 10X CD-ROM. Allows CD-Rom, HDD and FDD to perform at the same time.

INPUT/OUTPUT
PCMCIA: Two Type II or One Type III, 87 Keys, Windows 95 keyboard, Built-in Glide Pad, One IrDA Compliance Port. Built-In TV Port

AUDIO
Built-in Stereo Speakers, 16-Bit Stereo Sound Module, Stereo Line-in, Microphone-in and Line-out.

SOFTWARE
Microsoft Windows 95 and Family Bundle

MMX 166 ..... $3048
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Business Lease $108/Month

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- 2.1GB Hard Drive
- 10-Speed CD-ROM
- 1.44 Floppy Drive
- 2MB Display Memory
- Built-In Pointing Device
- 32-Bit PCI Bus
- Built-in Sound Card and Speaker
- NIMH Battery
- 1 Type III or 2 Type II PCMCIA Slots
- FREE Microsoft Windows 95
- Mini Docking Station Option

HI-TECH CD-ROM NOTEBOOKS	Dual Scan Color (12.1")	Active Matrix Color (12.1")	Active Matrix Color (13.3")
P5-133	$1918	$2468	$3068
P5-166	$1938	$2488	$3088
P5-200	$2038	$2588	$3188
MMX-166	$2018	$2568	$3168
MMX-200	$2118	$2668	$3268

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9. Superior reputation for service, quality and value.
10. Purchase orders are welcomed and subject to approval

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Input Automation, Torrance
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Intel Pentium®-200MHz MMX $1149
Common features above are included
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256K Pipeline Burst Cache
16MB of EDO RAM (32MB + $65)
1.2GB EDIE Hard Drive (1.6GB + $25)
Trident PCI 64 1MB DRAM
14" 1024x768 .28 NI Monitor (15" + $79)
8X IDE CD-ROM Drive
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33.600 Fax/Modem
Amplified 60W Speakers
Mini Tower Case w/230 PS

Intel Pentium®-133MHz $899
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Common features above are included
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32MB of EDO RAM
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P5-200MHz..... $2079
P5-166MHz MMX $2049
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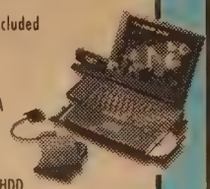
P5-120/256K PCI (Triton VX)	$179
P5-133/256K PCI (Triton VX)	$199
P5-150/256K PCI (Triton VX)	$219
P5-166/256K PCI (Triton VX)	$259
P5-200/256K PCI (Triton VX)	$349
Cyrix P6x86-166/256K PCI (Triton VX)	$159
Cyrix P6x86-200+MHz/256K (Triton VX)	$199
P5-166/512K PCI (Triton TX)	$289
P5-200/512K PCI (Triton TX)	$379
P5-166/512K PCI MMX (Triton TX)	$369
P5-200/512K PCI MMX (Triton TX)	$499
P5-150/512K PCI (ASUS VX)	$259
P5-166/512K PCI (ASUS VX)	$289
P5-200/512K PCI (ASUS VX)	$379
Cyrix P6x86-166+/512K PCI (ASUS VX)	$179
Cyrix P6x86-200+/512K PCI (ASUS VX)	$219
P5-166/512K PCI (ASUS TX)	$339
P5-200/512K PCI (ASUS TX)	$429
P5-166/512K PCI MMX (ASUS TX)	$409
P5-200/512K PCI MMX (ASUS TX)	$549
Pentium® II-233MHz (ASUS KN)	$929
Pentium® II-266MHz (ASUS KN)	$1058
P5-150/256K PCI (Intel Endeavor)*	$309
P5-166/256K PCI (Intel Endeavor)*	$349
P5-166/512K PCI MMX (INTEL TUCSON)*	$439
P5-200/512K PCI MMX (INTEL TUCSON)*	$569
Pentium® Pro 200MHz/256K (Intel VENUS)	$649

** With 16 bit Sound Blaster or Yamaha Sound Card.*

COMMON FEATURES:

Support Pentium® 200MHz MMX, 256KB L2 Pipeline Burst Cache, 3.5" 1.44MB floppy Drive, NiMH Battery, Integrated 16 Bit Sound Card w/Speakers, IrDA 1.0 Standard Compliant, Touchpad, Win95 Keyboard, Smart 2nd Battery, Microsoft Windows 95 CD w/Manual. AC Adapter, Carrying Case, CardBus & Zoomed Video.

CHEMBOOK 2600 SERIAL



Common features above are included
32MB of RAM Up to 128MB
(64/128MB+S299/Call)
Removable 1.44GB HDD to 3GB
12.1" Dual Scan & 12.1" TFT SVGA
PCI 64 2MB EDO Video RAM
800x600x 16M True Colors
10X EDIE CD ROM Drive
2 Smart Bays, Support 2nd & 3rd HDD
2 Type II & 1 Type III PCMCIA Slots
16 Bit Full Duplex, 3D Sound Card
Optional Built in 33.6 Modem (+$139)
AC Inside Adapter/Hot Docking
Port Replicator/Li-Ion Battery +$169/119

	12.1" Dual Scan	12.1" Active Matrix
P5-166MHz	$1989	$2539
P5-200MHz	$2109	$2669
P5-166MHz MMX	$2089	$2639
P5-200MHz MMX	$2209	$2769

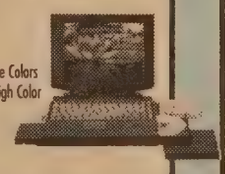
CHEMBOOK 6800/ 6800XL SERIAL

Common features above are included
256K/512K L2 Pipeline Burst Cache
32MB of RAM Up to 72/128MB
(64/72MB+S259/Call)
Removable 1.44GB HDD to 2.1GB
12.1" SVGA & 13.3" SVGA DSTN LCD
PCI 64 2MB/4MB EDO Video RAM
800x600x 16M True Colors
11X EDIE CD ROM Drive
3 Type II & 1 Type III PCMCIA Slots
16 Bit Full Duplex, 3D Sound Card (XL)
Port Replicator/Li-Ion Battery +$149/119

	12.1"Dual Scan	12.1"Active Matrix
P5-166MHz	$1969	$2519
P5-200MHz	$2099	$2649
P5-166MHz MMX	$2069	$2619
P5-200MHz MMX	$2199	$2749

Call for 6800XL Price

CHEMBOOK 9750 Serial



Common features above are included
16MB of RAM up to 80MB
(32/48/80MB+S129/249/Call)
Dual Scan/TFT SVGA/TFT XGA
PCI 2MB Video RAM
12.1i TFT up to 800x600X16M True Colors
13.3i XGA up to 1024x768 64K High Color
Removable 10X CD ROM
Removable 1.08GB HDD to 2.1GB
(1.44GB/2.1GB S89/259)
Two Type II & Type III Slot
Port Replicator/Li-Ion Battery +$169/119

	12.1" Dual Scan	12.1" TFT Active Matrix
P5-150MHz	$1779	$2329
P5-166MHz	$1809	$2359
P5-200MHz MMX	$1949	$2499
P5-166MHz MMX	$1909	$2459
P5-200MHz MMX	$2089	$2639

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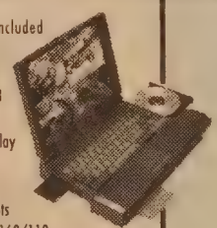

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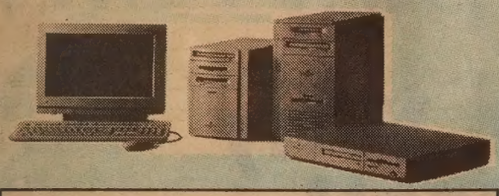

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DVORAK'S LAST COLUMN • BY JOHN C. DVORAK

If It Was A Dream, Why Did It Seem So Real?

Or, When Do We Get Down To Computing?

The Insiders Club—the enemies of Bill Gates—were meeting. They had changed their names; they had grown beards; they had developed a creepy secret handshake—but there was something familiar about each of them.

Of course, I dreamed the whole thing. But is it possible that this story is actually true?

Cast:

Larry Somerson: Head of Antilles Software, a company that sells the Antilles Database to large corporations. Through no fault of his own he became worth $10 billion, and now believes he should be the world's richest man. Prides himself on his good taste.

Scott McNab: Head of Moon Microsystems, a company that makes servers and promotes an odd programming language called Tealeaf. McNab sincerely believes he is the world's greatest CEO and doesn't understand why "Bill" gets all the attention. He loves to go into rants berating the competition in general and Bill in particular.

Steve Workman: Gadfly now, but once the former head of Bulb Computing. Brought back to Bulb after a series of management blunders resulted in near bankruptcy. His only job, though, was to get a lot of stock to cash in and to say, "I told you so, dummies!"

John Doorman: The hottest venture capitalist in the world. Blond, excitable, constantly getting in front of the mirror with Scott McNab, his pal, and arguing over which one of them has bigger teeth. Loves to berate people behind closed doors; wishes he was Gates.

Rupert Dockers: A huge media mogul scared to death that Gates, whom he hates, will buy up everything the old-fashioned way and muck up his personal empire. Likes to sleep during the meetings, only to wake up to throw a pencil at a speaker and yell, "That's crap!"

The scene: a board meeting of the Insiders Club. The five aforementioned insiders are in attendance.

John: The meeting will come to order.

Larry: Who died and made you king? I'm the chairman.

Scott: Since when?

Larry: Since last week. You weren't here.

Scott: Hey, it was my turn!

Larry: The meeting will come to order. Shut up, Scott. Come more often and you'll know more. First order of business: bash Bill.

Scott: I second.

Steve: There is nothing to second, dope!

Scott: Who are you calling a dope, you loser?

Steve: Loser? I have a billion, do you?!

Rupert: Gentlemen, we're supposed to be bashing Bill, not each other. Let's get down to it. What bad things can we say about this creep this week?

Scott: Let me tell you, he never combs his hair. He makes me sick.

Rupert: Oh puh-leeze, is that *all* you ever talk about? You said the same thing last week. This guy has the potential to destroy the world as we know it and make us all look like idiots. What are we going to do about it?

Larry: His suits don't fit right. Can we talk about that? I think if the public knew that he's wearing off-the-rack crap his company would go down the tubes. No kidding.

Scott: Hey, *I* wear off-the-rack crap.

Larry: My point exactly.

John: I think what we need here is less sniping at each other and a concerted effort to stop Microsoft. Look, we have Tealeaf and the Skinny client computer running the "Skin and Bones" operating system, which was my idea, as you know. With these products we should be able to change the way people use computers. We derail Bill.

Steve: None of you guys get it. This isn't about skinny clients or databases or even computing. It's about dreaming for a better universe.

Larry: Huh?

Rupert: Steve, meditate for a while and let the men do their jobs. I say we have someone smack Bill with a pie the next time he does a keynote.

John: Naw, it will look staged. How about flattening his tires in the Microsoft parking lot? He'll freak.

Larry: Right, there is no way he can change a tire. It will be all over the news. Once the public finds out he can't change a tire then he's through.

Scott: I second it!

John: Now who is going to be the one to do it?

All turn to Steve...

Meanwhile in Redmond...Bill Gates is in his office, listening in on all this via a speaker.

Gates: Flat tires, eh?

(*pushes intercom button*)

Madge, get me security!

Oh, and also, there's a company that will "pie" people for a small fee. Find out who they are and buy them!

And finally, call Ballmer in and tell him to get a ticket to Silicon Valley—and to pick up a box of nails before he goes.

(*To be continued...*)

—end. ■

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